

# New Hampshire ARCHITECT

AMERICAN INSTITUTE  
OF  
ARCHITECTS

DEC 4 1958

LIBRARY



ABCDEFGHIJKLMNOPQRSTUVWXYZ - 1234567890

NEW SCHOOL CONST.



**ANNUAL SCHOOL ISSUE**  
November, 1958

**24 SCHOOLS**  
in  
New Hampshire's  
School Building Program

OFFICIAL PUBLICATION

*New Hampshire Chapter of the American Institute of Architects*

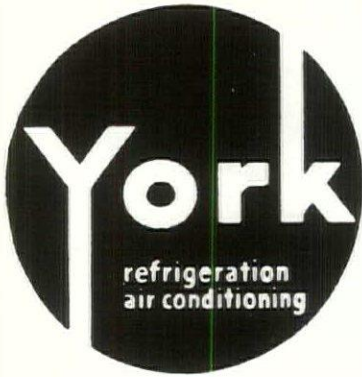


NOVEMBER  
1958

25c A COPY  
\$3.00 A YEAR

**AIR CONDITIONING**

**Residential - Commercial - Industrial**



**Year-Round or Summer**

**Engineering Assistance Available For Your  
Air Conditioning Problems**

**NEW HAMPSHIRE YORK CO.**

**720 Union St. Manchester, N. H.**

**NEW ENGLAND INSULATION CO.**

*Contractors - Distributors*

**ASBESTOS MAGNESIA FIBERGLAS**

**KAYLO and CORK PIPE COVERINGS**

**ASBESTOS MILLBOARD & PAPER**

**Tel. Highlands 5-7800**

**839-845 Albany St. Boston 19, Mass**

**ARTHUR E. SWANSON, Manager**



*Specify*

**YORK HEAT**

*for greater*  
**CUSTOMER SATISFACTION**

*Distributed in New England*

*by*

**HEAT INCORPORATED**

**Pine Street Extension • Nashua, N. H.**

**TUxedo 3-5021**

**Call or write for Engineering Assistance**





## OFFICERS

### *President*

NICHOLAS ISAAK, Manchester

### *Vice-President*

MALCOLM D. HILDRETH, Nashua

### *Secretary*

ANDREW C. ISAAK, Manchester

### *Treasurer*

W. BROOKE FLECK, Hanover

## DIRECTORS

JOHN R. HOLBROOK, Keene

JOSEPH F. LAMPON, Manchester

EDGAR H. HUNTER, Hanover

### *Regional Council Delegates*

NICHOLAS ISAAK (ex-officio) 1 yr.

JOHN D. BETLEY 1 yr.

ALEXANDER J. MAJESKI 1 yr.

NORMAN P. RANDLETT 2 yrs.

JOHN R. HOLBROOK 3 yrs.

### *Member of Regional*

### *Judiciary Committee*

RICHARD KOEHLER

### *Member of National Chapter*

### *Affairs Committee*

EUGENE F. MAGENAU

### *Member of Sub-Committee on*

### *Building Products Registration*

NORMAN P. RANDLETT

## EDITOR

ALEXANDER MAJESKI, R. A.  
Palomino Lane  
Manchester, N. H.

## PUBLISHER

LAWRENCE J. MOYNIHAN  
P. O. Box 291  
Concord, N. H.  
Tel. CA 5-3297

# New Hampshire ARCHITECT

---

VOL. 10

NOVEMBER, 1958

NO. 4

---

## IN THIS ISSUE

New Hampshire Architect this month presents its fifth annual School Issue. Included in the list of schools designed by members of New Hampshire Chapter, A. I. A., are high schools, elementary schools and dormitories.

Since the first School Issue was published in 1954, nearly 100 schools in New Hampshire have been designed by architects of this state, and have been published in New Hampshire Architect, during the past four years.

The State Board of Education has taken an active interest in the publication of these schools each year. Paul E. Farnum, acting commissioner of education and Erik Anderson of the education department have both contributed to the success of this issue.

---

New Hampshire Architect is published monthly, under the direction of the president and board of directors of the New Hampshire Chapter, American Institute of Architects, to promote the objectives and public relations of the chapter. Advertising rates furnished upon request.

# Serving the People of NEW HAMPSHIRE

---

John D. Betley,  
Manchester

Bradt, Littlefield & Williams  
Dover

Dirsa and Lampron,  
Manchester

W. Brooke Fleck,  
Hanover

Alfred T. Granger Associates,  
Hanover

Gray and Ingram,  
Hanover

Russell S. Harmon,  
Durham

Irving W. Hersey Associates,  
Durham

John R. Holbrook Associates,  
Keene

Andrew C. Isaak  
Manchester

Koehler and Isaak,  
Manchester

Alexander Majeski,  
Bedford

Arnold Perreton and Associates,  
Concord

Carl E. Peterson,  
Manchester

Douglass G. Prescott,  
Laconia

Leo P. Provost,  
Manchester

Norman P. Randlett,  
Laconia

Tracy and Hildreth,  
Nashua

William L. White,  
Exeter

Maurice E. Witmer,  
Portsmouth

Participating Members of the New Hampshire Chapter

# A. I. A.



## *The President's Message*

The increasing population which has made our school plants bulge at the seams and the cost of building, compounded in some cases by the rapid obsolescence of older facilities, has brought an acute problem to our communities. School boards, educators and taxpayers, keenly interested in the quality of education and faced with housing an increasing number of school children are deeply concerned in getting the most mileage out of the school dollar.

New Hampshire's architects and educators are acutely aware of this problem and what you see illustrated in this school issue of the New Hampshire Architect is a fair sampling of how this problem is being met. These examples, while not purporting to be complete answers, do show a rigid regard for economy. A glance at the costs should assure the taxpayer and the school board that they are getting full value for their dollar and that economy has been achieved without cheating the child. There are no frills here, yet here and there you do see architectural character which has been managed despite low cost — given time and a little more ingenuity we will achieve better buildings and perhaps, even great buildings.

These schools as well as others built throughout the State are not accidental, they are the result of a great deal of sweat on the part of the architects, the school superintendents and the school boards as well. These people do not seek applause or a pat on the back. They consider this as part of their job and are content to let the buildings speak for themselves.



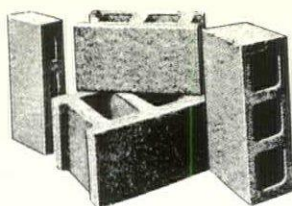
---

# **A ROOF BY THERRIEN IS A GOOD ROOF**

TEL. 3-6193

199 HAYWARD STREET

MANCHESTER, N. H.



**MONADNOCK**

**ARTHUR  
WHITCOMB**  
INC.

725 Main St.

Keene, N. H.

ELmwood 2-0101

## **MANCHESTER SUPPLY COMPANY**

Railroad Square  
MANCHESTER, N. H.



Established 1890

Joseph W. Epply, Pres.

Wm. Hayes, Treas.

**Pioneer Wholesalers  
of  
Plumbing and Heating  
Supplies**

*"tailor-made"* **FIDELITY, SURETY**

*and* **BURGLARY**

*coverages demand a*

# **SPECIALIST**

**PEERLESS**  
*Insurance Company*

INCORPORATED 1901  
KEENE, NEW HAMPSHIRE  
A MULTIPLE LINE COMPANY

*also writing:* Reinsurances •

Fire and Inland Marine •

Casualty and Liability Lines •

Accident and Health • Specialized

Lines and Excess Covers



# AN EDUCATOR'S VIEW ON SCHOOL CONSTRUCTION

BY ERIK R. ANDERSON,  
*Assistant Director, Administrative Services  
State Department of Education*

The expanded enrollments during the last decade have placed school construction in the limelight of activities in most every community in New Hampshire. In recognizing the pressing construction problems the State Department of Education has actively devoted much time to study of the matter.

To build enough of the right kind of school and be able to pay for it seem to be the crux of the problem for every community. All too often special "pet" desires by special interest elements result in sacrifices in sorely needed facilities within a school building program.

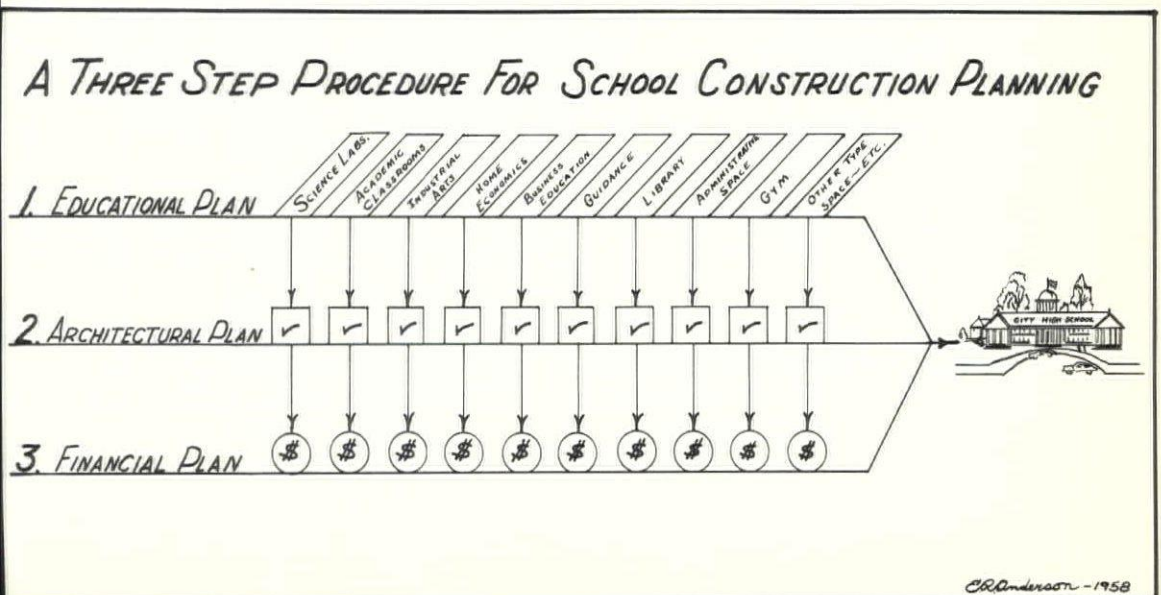
As a result, the State Department of Education has recognized the need to take a long look at educational plans and single out deficiencies which appear in proposed architectural plans. The deficiency is by no means created by the architect, but primarily because local leadership did not place "firsts" where "firsts" should appear. In singling out inadequate items within proposed architectural plans it has been the hope that local school authorities would remedy the circumstances.

Basically the department staff examines school projects on a three point basis. First it considers the educational plan for the school. Second, it reviews the proposed architectural plan, and third it analyzes the financial plan. The three points simply raise two questions, namely

1. Does the architectural plan provide the space and facilities needed to operate the program proposed by the educational plan?
2. Is the architectural plan within the financial means of the community?

Once the three points are known and the two basic questions answered in the affirmative, the school construction problem is resolved. As a matter of practice the education department at this point acknowledges this by expressing approval of the architect's plans.

In reviewing plans developed by the architect, the education people are cautious to look for facilities that appear inadequate for the proposed school program. They, too, are on the alert to "spot" facilities which may have been omitted. The problem is usually resolved





when the inadequate or omitted facilities is included in other future expansion plans.

It is not the perspective of those reviewing architectural plans to discourage any proposed facilities that extend beyond recommended minimums provided all other educational needs are met. However, when excessive building is proposed for some educational areas at the sacrifice of other school needs, then in the interest of a well balanced program the local officials are requested to review the entire educational and architectural program. Most usually the local school authorities are quick to see clearly the issue and set out to remedy the matter.

In studying educational plans for schools the following is used as a guide by department reviewers.

1. Academic space. In elementary schools this is usually gauged by the number of classes by grades that need to be housed. In high school it is necessary to know the subjects to be taught and the number of students within each subject along with other basic information about the proposed operational schedule. Most usually the subjects taught in a regular or so termed "interchangeable" classroom are: English, social studies, mathematics, foreign language, and any other subject that would not require special or fixed equipment for the instruction of the course.
2. Special classroom space. In elementary schools this type space would usually be limited to 7th and 8th grade shops and home economics areas. In high schools it would usually include space for chemistry, physics, biology, general science, industrial arts, business education, home economics, agricultural education, physical education and any other subject that would require for instructional purposes special equipment to be installed or located in a classroom.

3. Other facilities. In both elementary and high schools this type space would include allocation of space for library, toilets, cafeteria, storage, auditorium, administration office, health, guidance, maintenance, teachers' room, etc.

All too frequently the people reviewing plans in the State Department of Education find that educational plans for school are either lacking altogether or only partially developed. As a result it is most difficult to analyze or review architectural plans when a complete picture of the intents of the local school officials is unknown. Furthermore it must present an equally if not more complex problem to the architect who must plan a building project within some resemblance of school objectives. Therefore if both educators and architects are experiencing similar difficulties it might be wise singularly or jointly explore how school construction planning might better be approached.

From an educator's point, it would seem well to know the needs of a school by the sequence of what is most needed and most important. This would give some style a "yardstick" to measure school needs and thereby permit the proper emphasis to be placed where it is most logical, needed and in the over-all building program. Some of the advantages that could result are:

1. Realistic de-emphasis on over-building in certain areas before all urgent school needs are met.
2. Better mileage for the tax dollar for communities faced with school construction.
3. More responsibility will be placed on the local school authorities to develop immediate as well as long range educational plans. This might easily result in communities requiring planned periodic building programs to meet the demands for expanding enrollments as well as hold within community financial limitations.



4. To spell out more clearly what the architect needs to provide in planning of the school construction project.
  5. To justify to the public what is needed in their schools and how they may achieve it through a sound architectural and educational plan.
- There are many other advantages than the few listed above. However the

real purpose is to develop a system of sound planning so that all parties concerned will know in which direction to move forward.

If projected enrollments are a barometer to future school expansion, then the outlook points to a long-range program of school construction. To improve a system of planning may well prove profitable to all.

## SPRAGUE'S #4 DISTILLATE FUEL OIL

Sprague at Portsmouth now offers a special fuel oil for use

- where #6 (Bunker "C") fuel oil is not considered practicable
- where #5 blended oil results in inefficient operation, excessive service calls, or unsatisfactory performance
- where #2 fuel oil is over 20,000 gallons per year

This is SPRAGUE'S #4 DISTILLATE, a refined product of consistent analysis, delivered to Portsmouth by tanker direct from the refinery, and stored separately in a 4,000,000 gallon capacity tank.

The use of SPRAGUE'S #4 DISTILLATE eliminates the problems of poor combustion and excess soot caused by variations in the oil's characteristics from load to load, does away with starting failures in cold weather, high preheating costs, and sludge precipitation in storage tanks, and requires less attention and service.

Deliveries of SPRAGUE'S #4 DISTILLATE are made in Sprague trucks throughout New Hampshire and into Maine, Massachusetts, and Vermont.

SPRAGUE'S #4 DISTILLATE is competitive in price with #5 blended oil and superior in performance. Let one of our representatives tell you more about it.

*Telephone Portsmouth, GENEVA 6-4120 for further information.*

### C. H. SPRAGUE & SON CO.

Gosling Road — P. O. Box 478

PORTSMOUTH, NEW HAMPSHIRE

Home office at Boston — Offices serving customers in 24 States and Canada.

1ST STEP TO SOUND, SUCCESSFUL BUILDING  
CONSULT AN ARCHITECT



**STRUCTURAL  
CONCRETE  
CORPORATION**

For Better School Construction  
Use Concrete Double Tee Slabs  
ECONOMICAL FIREPROOF ATTRACTIVE

Lakeport P.O. Box 132 - Laconia, N. H.  
Phone 2718



LET US HELP YOU TO HELP  
YOURSELF WHEN IN NEED OF

## SCAFFOLDING

Lease

Sale

Sectional Steel Scaffolding  
Putlogs — Ledger Clamps  
Plasterers' Jacks  
Sidewall Steel Scaffolding

**BUY DIRECT FROM FACTORY**

And Save Agent's Commission

MADE TO FIT ANY TYPE OF SCAFFOLD

### Scaffolding Specialty Co., Inc..

35 Lexington Avenue  
WEST SOMERVILLE, MASS.

Telephone—SOMerset 6-4050

## REFRIGERATION DISTRIBUTORS FOOD SERVICE CONSULTANTS

Complete Planning Service

For Markets and Food Stores  
Special Industrial Refrigeration  
Complete Air Conditioning  
Hotel, Restaurant and  
Institutional Kitchens,  
Cafeterias, Dining Areas  
Cocktail Lounges

### HUMPHREYS, INC.

180 No. Main Street - Concord, N. H.

A Business Devoted To Those  
Who Serve Food

## FALL MEETING SCHEDULED FOR LACONIA, NOVEMBER 20

The Laconia Tavern has been selected for the annual Fall meeting of New Hampshire Chapter, A. I. A., Norman P. Randlett, chairman of the committee on arrangements has announced. The date is Thursday, November 20.

Chairman Randlett said that dinner will be served at 6:30, followed by the business meeting. Prior to the dinner, the officers and directors meet, starting at 4:30 P. M.

## ARCHITECT EXPANDS KEENE OFFICE

After practicing architecture in Keene for the past six years, Alexander R. James, A. I. A., reports joining with Arthur M. Doyle, Architect, and the change of firm name to A. R. James and A. M. Doyle.

Both men graduated from Yale University with Bachelor of Architecture degrees (1947, 1948). James, a native of New Hampshire, worked for architects in San Francisco and Boston for a number of years before returning to Keene to open his own office in 1953. He has specialized in contemporary residential architecture.

Doyle, a native of Springfield, Massachusetts, joins the firm after architectural experience in public housing, commercial industrial and school buildings. For three years prior to coming to Keene he was staff architect at the New York Stock Exchange.

The firm remains at the same address 40 Mechanic Street, but has taken additional office space.



**STRUCTURAL  
CONCRETE  
CORPORATION**

For Better School Construction  
Use Concrete Double Tee Slabs

**ECONOMICAL FIREPROOF ATTRACTIVE**

Lakeport P.O. Box 132 - Laconia, N. H.  
Phone 2718



# E. S. BOULOS CO.

## ELECTRICAL ENGINEERS and CONTRACTORS

1217 ELM STREET — MANCHESTER, N. H. — Tel. NAtional 3-8831

P. O. BOX 837

21 CENTER STREET — PORTLAND, MAINE — Tel. SPruce 2-3706

P. O. BOX 860

*"Serving Northern New England since 1920"*

## SPRAGUE FUELS for New Hampshire consumers

Sprague has a fuel to satisfy most heating and process load requirements

### Industrial Fuel Oils

- #4 Distillate
- #5 Blend
- #6 Bunker "C" (Residual)

### Bituminous Coals

Southern Tidewater and Northern All Rail coals for underfeed, spreader, or chain grate stokers and pulverized fuel units

Sprague has a New Hampshire organization on the spot to serve the entire state

- A tidewater terminal at Portsmouth handling a full range of Industrial fuel oils and quality Southern West Virginia coals.
- A fleet of fuel oil and coal trucks for complete delivery service, and facilities for making rail shipments of both coal and fuel oil.
- A sales and engineering force available to you offering factual information on the type of fuel best suited to each installation's equipment.

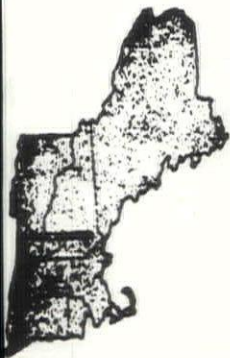
*Telephone our representatives at Portsmouth, GENEVA 6-4120 for sales service.*

## C. H. SPRAGUE & SON CO.

Gosling Road — P. O. Box 478

PORTSMOUTH, NEW HAMPSHIRE

Home office at Boston — Offices serving customers in 24 States and Canada.



## NEW HAMPSHIRE *Supply Company*



*Wholesalers and Jobbers*

PLUMBING & HEATING  
SUPPLIES  
INDUSTRIAL SUPPLIES  
POWER TOOLS  
PAINT & HARDWARE

40-48 COMMERCIAL ST.

MANCHESTER, N. H.

TEL. 5-7881

149 PLEASANT ST.

CLAREMONT, N. H.

TEL. 2030





**Brown  
Elementary School  
Berlin, N. H.**

Designed by:

**KOEHLER & ISAAK**  
Manchester, N. H.

Erected by:

**Caron Construction Company, Inc.**  
Manchester, N. H.

**PAINTED BY:**

**William A. LeFrancois**

Painting Contractor

34 Swan Ave.

Dial 3-2862

**MANCHESTER, N. H.**

**Plumbing - Heating**

**BROWN SCHOOL**  
Berlin, N. H.

**DALTON ELEMENTARY SCHOOL**  
Dalton, N. H.

By

**Fitzmorris Plumbing  
and Heating, Inc.**

**WHITEFIELD, N. H.**  
Tel. 7-2503

**CARON CONSTRUCTION CO., INC.**

**General Contractors and Builders**

**161 BAKER STREET**

**PHONES: 2-4073 — 2-8475**

**MANCHESTER, NEW HAMPSHIRE**

**GENERAL CONTRACTORS**

**for**

**Berlin, N. H.  
Elementary School Addition  
Sanbornton, N. H.  
Elementary School Addition**



# **Additions and Alterations to Colebrook Academy, Colebrook**

## **DESCRIPTION:**

Reinforced Concrete Foundations, Reinforced Dampproofed Concrete Floor Slabs, Structural Steel Frame, Precast Concrete Insulating Roof Decking, Twenty Year Bonded Roof. Lead Coated Copper Flashings, Aluminum Sash, Brick Facing with Cinder Tile Backing, Cinder Tile Interior Partitions, Acoustical Tile Ceilings, Asphalt Tile Finished Floors, Ceramic Tile Toilet Room Floors, Steel Interior Door Frames, Fifty-Seven (57) Plumbing Fixtures, Modern Electrical, New Boiler for Existing System and New Hot Water Heating System, Forced Ventilation.



FIRST FLOOR PLAN



SECOND FLOOR PLAN



BASEMENT FLOOR PLAN

ADDITIONS AND ALTERATIONS TO  
COLEBROOK ACADEMY BUILDING  
COLEBROOK, NEW-HAMPSHIRE  
IRVING W. HERSEY ASSOCIATES ARCHITECTS & ENGINEERS, DURHAM, N. H.

ITEM	Cost	% of Total Cost	Cost Per Sq. Ft.	Cost Per Cu. F.
STRUCTURE.....	\$99,918.00	73.8	\$ 8.23	\$ .719
PLUMB., HEAT., VENT.....	26,896.00	19.8	2.22	.192
ELECTRICAL.....	8,475.00	6.4	.70	.061
TOTAL COST OF BUILDING.....	\$135,289.00	100.0	\$11.15	\$ .972

TOTAL VOLUME: 291,240 cu. ft.—TOTAL FLOOR AREA: 12,135 sq. ft.  
CEILING HEIGHTS: Basement 9'-9"; First Floor 9'-7"; Second Floor 9'-4".

**Irving W. Hersey Associates, A.I.A., Architects - Durham, N. H.**  
**WINSTON P. TITUS, LAKEPORT, N. H.**  
**GENERAL CONTRACTOR**



# INVESTIGATE AND GET THE FACTS ON **Precast Double Tee Concrete Slabs**

Low long term costs in maintenance and repair, eliminate costly prolonged construction, get an attractive fireproof school.

This School with more than 39,000 square feet of

## **Precast Concrete Roof Deck**

was set in place and ready for roofing in two days.

Area — 35,360 sq. ft.

Contract Price — \$297,000

Cost — Per sq. ft. \$8.40



**Structural Concrete Corporation**  
*Precast and Prestressed Concrete Products*  
LAKEPORT P. O. Box 132 LACONIA, N. H.

- Economical
- Fireproof
- Attractive

## **WINSTON P. TITUS**

GENERAL CONTRACTOR

---

Specializing in Modern Industrial  
and Commercial Construction

---

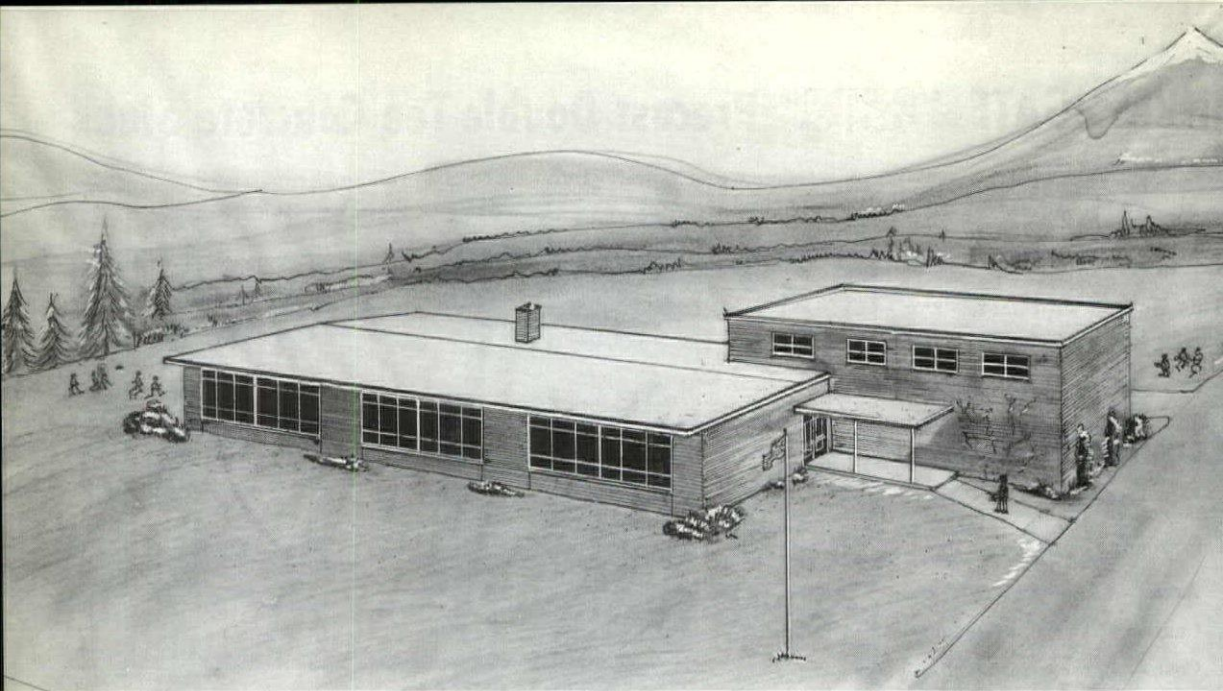
Telephone 897 or 273

**Lakeport, N. H.**

### **GENERAL CONTRACTOR**

for

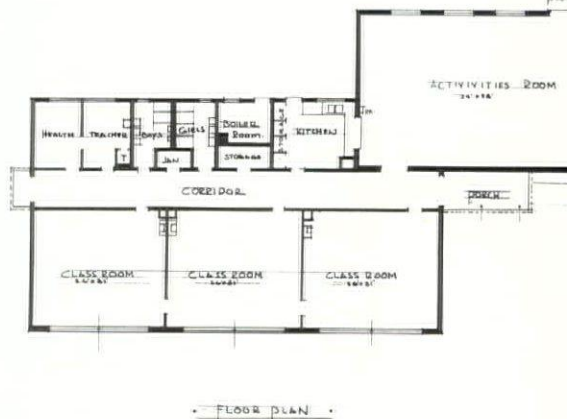
COLEBROOK ACADEMY, COLEBROOK, N. H.  
PLYMOUTH HIGH SCHOOL VOCATIONAL BUILDING,  
PLYMOUTH, N. H.



## Dalton Elementary School, Dalton

### DESCRIPTION:

Footings and Foundation Walls—reinforced concrete; Exterior Walls—brick veneer norlite back up units, steel frame; Roof Framing—long span and standard joists, precast deck, 20-year bonded roofing; Interior Partitions—norlite units, metal door frames; Floors—concrete slab on grade, asphalt tile; Ceilings—class room wing, plastered, activities room, exposed structure; Windows—aluminum sash; Heating—forced hot water, two zone; Plumbing—Standard fixtures, sink cabinets and fountain in each class room; Electrical—classrooms, fluorescent fixtures, activities room and remainder of building, incandescent fixtures.



ITEM	Cost	% of Total Cost	Cost Per Sq. Ft.	Cost Per Cu. Ft.
STRUCTURE.....	\$43,968.00	71.4	\$6.54	\$ .46
PLUMB., HEAT., VENT.....	14,765.00	24.0	2.20	.16
ELECTRICAL.....	2,997.00	4.6	.44	.04
TOTAL COST OF BUILDING.....	\$61,730.00	100.0	9.18	\$ .66

TOTAL VOLUME: 94,000 cu. ft.—FLOOR AREA: 6,725 sq. ft.—DATE OF BID: July 10, 1958.

**Alexander J. Majeski, A.I.A., Architect - Bedford, N. H.**

**KENNETH E. CURRAN, INC., LITTLETON, N. H.**

GENERAL CONTRACTOR



**HOULE ELECTRIC SHOP**  
**Littleton, N. H.**

18 Main Street

Tel. 4-2301

**Electrical Contractor**

For New

DALTON

ELEMENTARY SCHOOL

Designed By \_\_\_\_\_

Alexander J. Majeski, A. I. A.

Bedford, N. H.

**We have supplied**  
**the MILLWORK**

for

DALTON

ELEMENTARY SCHOOL

and many other

fine New Hampshire buildings.

\_\_\_\_\_  
COLE'S MILL, INCORPORATED

\_\_\_\_\_  
LITTLETON, NEW HAMPSHIRE

Lit. 4-3391

Member Architectural Woodwork Institute

**KENNETH E.**  
**CURRAN**  
**INC.**

**LITTLETON • NEW HAMPSHIRE**

**General Contractor**

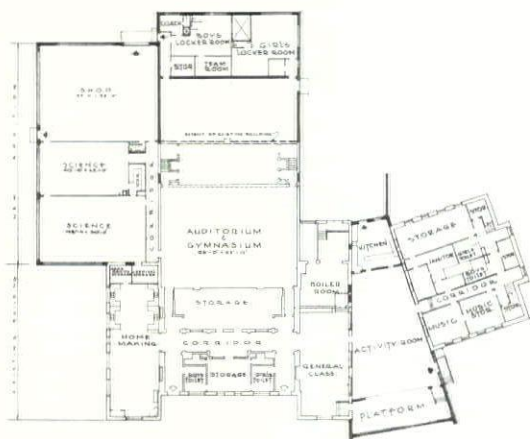
**DALTON ELEMENTARY SCHOOL**

**PROJECT SUPERINTENDENT**

**DANIEL BOISVERT**

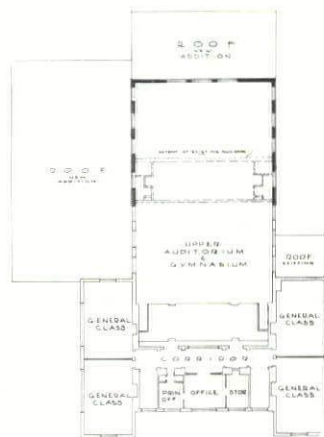


## Additions and Alterations to High School Building, Gorham, N. H.



GROUND FLOOR PLAN

—ELEVATION—



FIRST FLOOR PLAN

### DESCRIPTION:

Reinforced Concrete Foundations, Reinforced Dampproofed Concrete Floor Slabs, Structural Steel Frame, Precast Concrete Insulating Roof Decking and Wood Decking on Gymnasium. Twenty Year Bonded Roof, Lead Coated Copper Flashings, Aluminum Sash and Curtain Walls,

Brick Facing with Cinder Tile Backing, Cinder Tile Interior Partitions, Asphalt Tile Finish Floors in Classrooms, Rock Maple Floor in Gymnasium, Acoustical Tile Ceilings, Steel Interior Door Frames. Thirty Five (35) Plumbing Fixtures, New Boiler for Existing Heating System and Hot Water Heating System for new Addition, Forced Ventilation.

ITEM	Cost	% of Total Cost	Cost Per Sq. Ft.	Cost Per Cu. Ft.
STRUCTURE.....	\$122,078.00	72.7	\$ 9.77	\$ .669
PLUMBING.....	10,330.00	6.1	.83	.057
HEATING & VENTILATING.....	23,814.00	14.2	1.90	.131
ELECTRICAL.....	11,818.00	7.0	.95	.065
<b>TOTAL COST OF BUILDING.....</b>	<b>\$168,040.00</b>	<b>100.0</b>	<b>\$13.45</b>	<b>\$ .922</b>

TOTAL VOLUME: 182,424 cu. ft.—TOTAL FLOOR AREA: 12,491 sq. ft.  
—CEILING HEIGHTS: Auditorium - Gymnasium 21'-6"; Classrooms 9'-0"; Activity Room 10'-6".

**Irving W. Hersey Associates, A.I.A., Architects - Durham, N. H.**

**BRIDEAU CONSTRUCTION CO., INC., BERLIN, N. H.**  
GENERAL CONTRACTOR



## MILLWORK

For

BROWN SCHOOL, BERLIN, N. H.

GORHAM HIGH ADDITION

WOODSVILLE SCIENCE SUITE

KEENE TEACHERS COLLEGE  
VOCATIONAL BUILDING

— Furnished by —

**JOHN F. CHICK  
& SON, INC.**

SILVER LAKE, N. H.

Tel FOrrest 7-4611

## BRIDEAU

**Construction Co., Inc.**

Exchange Street

Tel. 2006

**Berlin, N. H.**



**General Contractors**

for

GORHAM HIGH SCHOOL ADDITION

at

Gorham, N. H.

**The GUSTIN Corp.**  
**Winchester, Mass.**

NEW ENGLAND HEADQUARTERS

for

**MACOMBER**  
**Steel Building Products**

**Wm. A. Gosselin Co. Inc.**

290 Pleasant St.,

Berlin, N. H.

Tel. 346

**Plumbing & Heating  
Contractors**



HEATING and VENTILATING

Gorham High School Addition

Gorham, N. H.

PLUMBING INSTALLATION

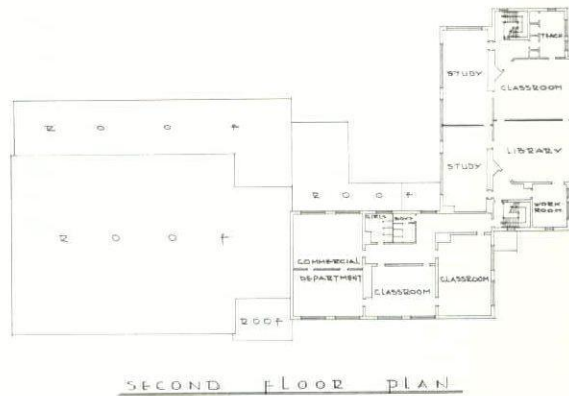
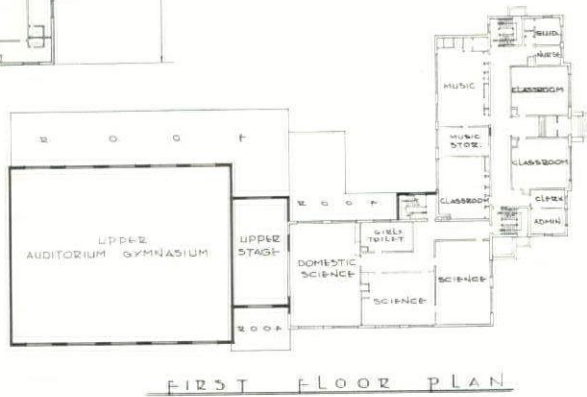
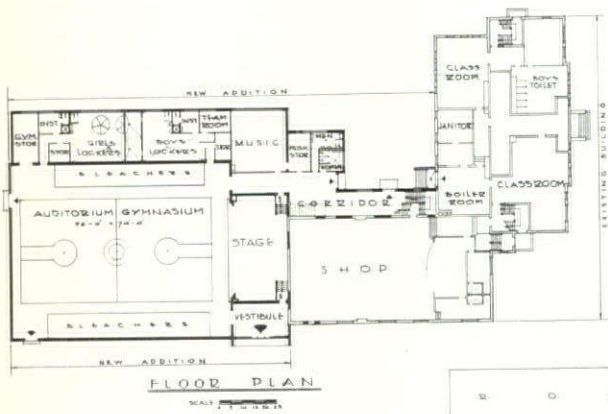
Plymouth High School

Vocational Building

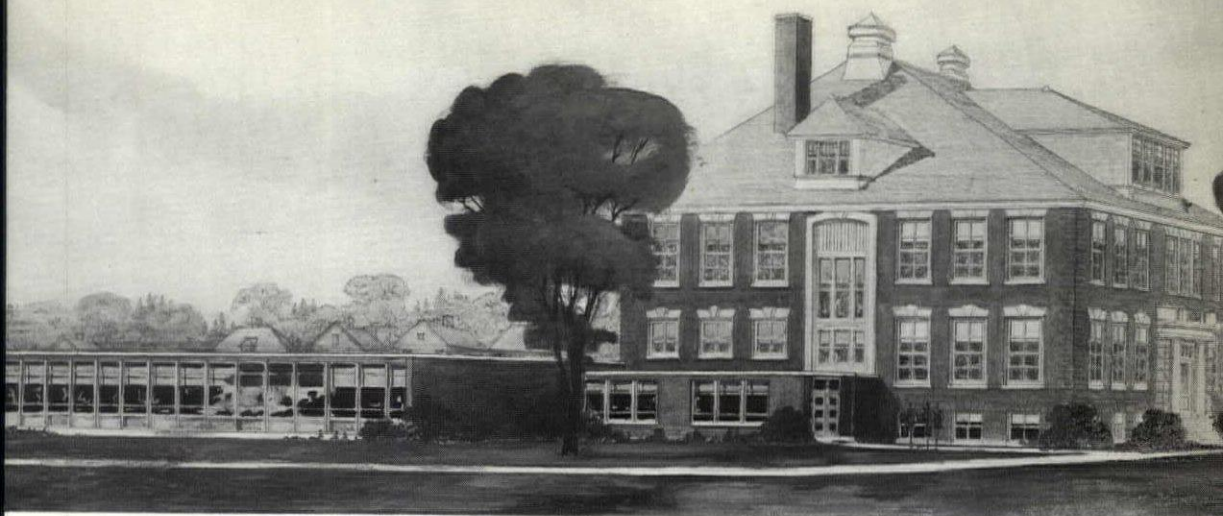
Plymouth, N. H.



## Groveton High School



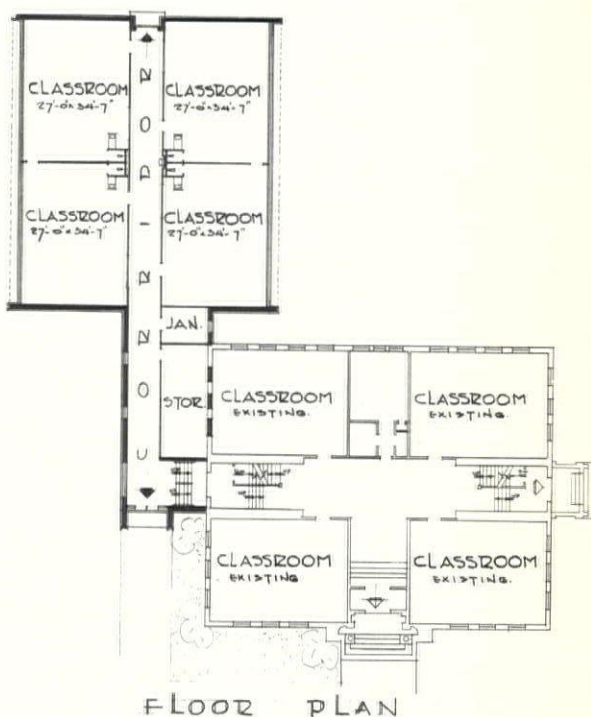




## Additions and Alterations to Elementary and High School Groveton

### DESCRIPTION:

**BOTH BUILDINGS:** Reinforced Concrete Foundations, Reinforced Dampproofed Concrete Floor Slabs, Structural Steel Frame, Precast Concrete Insulating Roof Decking, Twenty Year Bonded Roof. Lead coated Copper Flashings, Aluminum Sash and Curtain Walls, Brick Facing with Cinder Tile Backing, Cinder Tile Interior Partitions, Asphalt Tile Floors. Classroom Sections; Rock Maple Gymnasium Floors, Acoustical Tile Ceilings, Steel Interior Door Frames, Complete Modern Electrical; 41 Plumbing Fixtures; New Boiler for High School with Six Zone hot water Heating System Complete, New Hot Water Heating System for Existing Building and New Addition at Elementary School with Four Zones. Forced Ventilation.



FLOOR PLAN

ITEM	Cost	% of Total Cost	Cost Per Sq. Ft.	Cost Per Cu. Ft.
STRUCTURE.....	\$154,445.00	66.6	\$ 7.90	\$ .424
PLUMBING.....	14,300.00	6.2	.73	.039
HEATING & VENTILATING.....	50,536.00	21.7	2.58	.138
ELECTRICAL.....	12,540.00	5.5	.64	.035
<b>TOTAL COST OF BUILDING.....</b>	<b>\$231,821.00</b>	<b>100.0</b>	<b>\$11.85</b>	<b>\$ .636</b>

**TOTAL VOLUME:** 364,355 cu. ft.—**TOTAL FLOOR AREA:** 19,549 sq. ft.

—**CEILING HEIGHTS:** Elementary School 10'-0"—**CEILING HEIGHTS:** High School, Locker Room and Music 10'-6"; Auditorium-Gymnasium 20'-0".

**Irving W. Hersey Associates, A.I.A., Architects - Durham, N. H.**

**RENE T. RICHARDS & SON, BERLIN, N. H.**

GENERAL CONTRACTOR

## **Rene T. Richards & Son**

52 Gilbert St.

Tel. 1331

**Berlin, N. H.**

### **General Contractor**

for

BERLIN HIGH SCHOOL

GROVETON ELEMENTARY SCHOOL

GROVETON HIGH SCHOOL

## **R. H. KEIR**

### **Plumbing and Heating**

292 Main St.

Tel HOmestead 6-2301

GORHAM, N. H.

PLUMBING • HEATING

Colebrook, N. H. Elementary School

Groveton, N. H. Schools

• PLUMBING •

Gorham, N. H. High School

## **Bloom, South & Gurney**

Incorporated

9 Melcher Street

BOSTON, MASS.

Liberty 2-5300

### **CERAMIC TILE**

at

Groveton Elementary Addition

Groveton Secondary Addition

Groveton, N. H.

**CERAMIC TILE - QUARRY TILE**  
**RESILIENT TILE FLOORS**

Our salesmen cover all of New England.  
Phone Liberty 2-5300 for a qualified  
representative to assist your planning.

## *Wills & Hill*

INCORPORATED

Representing

GENERAL BRONZE CORP.

(Permatite Aluminum, Bronze and Stainless  
Steel Windows and Curtain Walls)

CONCRETE PLANK CO., INC.

(Light Weight Nailable Concrete Roof  
Plank)

THE WILLIAM BAYLEY CO.

(Aluminum & Steel Windows, Curtain Wall  
Systems)

WILLIS STEEL CORP.

(Steel Double Hung Windows)

ABBOTTSFORD CO.

(Rolling Steel Doors)

CUTLER MAIL CHUTE CO.

(Mailing Systems and Mail Boxes)

MILWAUKEE STAMPING CO.

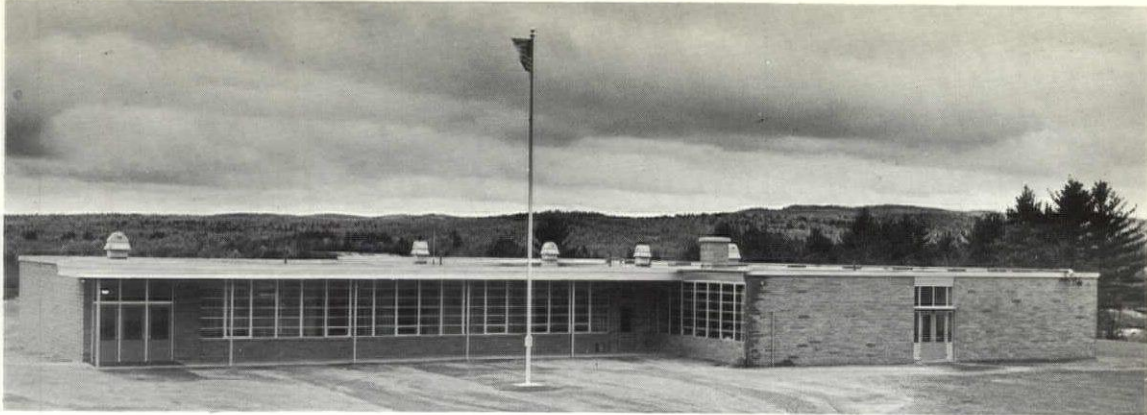
(Toilet Partitions)

99 Bedford St.

Boston 11, Mass.

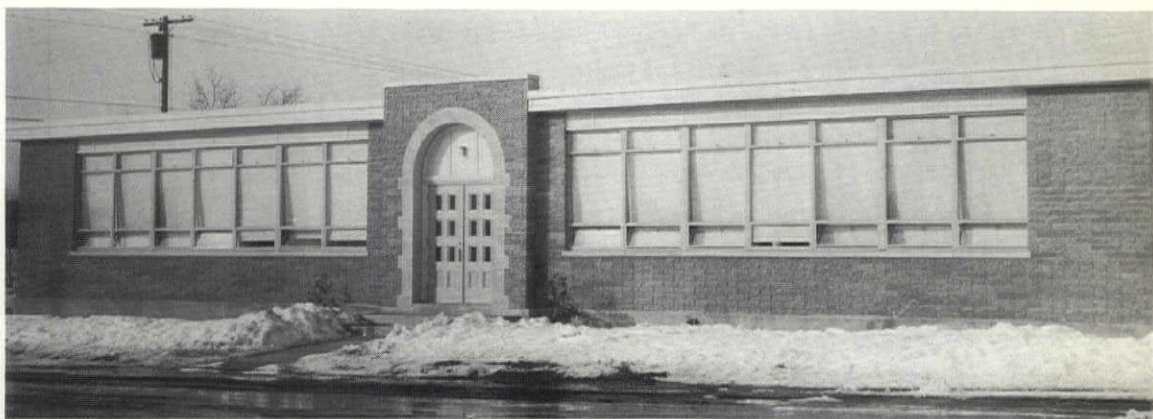
Telephone HUbbard 2-6490





HOOKSETT SCHOOL  
BES-STONE & 24" NORLITE

## CONCRETE MASONRY *for Beauty*



GOFFS FALLS SCHOOL  
Built in 1957 with BES-STONE

# DURACRETE



ST. PAUL'S SCHOOL GYMNASIUM

## PART THREE

# facts

about  
ARCHITECTURE  
and  
ARCHITECTS

---

## THE ARCHITECT'S PLACE IN THE COMMUNITY

**As a Builder:** Structures of all kinds are such a familiar part of our communities that one is apt to think of architecture as something that just happens. Yet even the simplest construction needs skill, training and experience to guide it if the result is to be both practical to use and satisfactory to see. The Architect, then, is largely responsible for the physical makeup of his community.

**As a Professional Man:** The profession of architecture calls for men of the highest integrity, business capacity, artistic and technical ability. An Architect's honesty of purpose must be above suspicion; he acts as a professional adviser to his client and his advice must be absolutely unprejudiced; he is charged with the exercise of judicial functions as between client and contractors and must act with entire impartiality; he has moral responsibilities to his professional associates and subordinates; finally, he is engaged in a profession which carries with it vital responsibility to the public. His motives, conduct and ability earn respect and confidence.

**As a Citizen:** The Architect participates in community affairs on various civic commissions and in advisory capacity in community planning; this participation is a foundation for his own good relations with the public.

There are approximately 7,000 architectural firms in the nation—from one-man offices to those employing many. Architects employ designers, draftsmen, specification writers and apprentices. Other professions work closely with Architects, often as members of the Architect's organization, sometimes as consultants or associates.

**As a Member of the AIA:** The initials AIA (American Institute of Architects) following an Architect's name have come to be recognized publicly, even in the courts of the land, as a certificate of merit in the professional world. At the community level, members of AIA Chapters deal with exchange of information on methods, materials, procedure—to better their competence through mutual sharing of knowledge and experience, improve safeguards that the law and codes impose, develop an atmosphere of public taste and social responsibility.



**Professional Distribution\*:** Seventy per cent of the profession earns its livelihood in communities of over 100,000 population. Of the remaining 30 per cent of the profession, 20 per cent are located in communities containing 25,000 to 100,000 persons, and 10 per cent have as their potential market, communities in which populations range from under 5,000 to 25,000 persons.

For the nation as a whole 70 per cent of the Architects are in private practice; 19 per cent are employed by other Architects, which proportion is in sharp contrast to 5 per cent classified as public employee Architects. The remaining 6 per cent are equally divided among teachers on architectural faculties and the miscellaneous group that includes Architects in non-architectural work or those retired or unemployed.

*\* Above figures from The 1950 Survey of the Architectural Profession, conducted by the Commission for The Survey of Education and Registration.*

(To Be Continued in December Issue)



**STRUCTURAL  
CONCRETE  
CORPORATION**

For Better School Construction  
Use Concrete Double Tee Slabs  
ECONOMICAL FIREPROOF ATTRACTIVE

Lakeport P.O. Box 132 - Laconia, N. H.  
Phone 2718

## **Colonial Supply Corp.**

25 Union Street

MANCHESTER, N. H.

Plumbing - Heating - Mill Supplies

BORG WARNER'S HYDRALINE

Central

System Air Conditioning

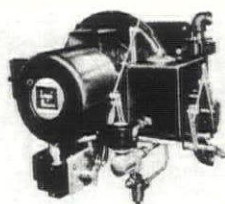
HEATING — in Winter

COOLING — in Summer

Today's Trend In Building

WE INVITE YOU TO VISIT THE  
LARGEST SHOWROOM IN NEW ENGLAND

WHOLESALE ONLY



**D. H. McClarty Co.**  
**Heating and Plumbing**

**JOHNSON  
OIL BURNERS**

THE FINEST IN HEAVY OIL  
BURNING EQUIPMENT

57 McCauley St. Manchester, N. H.  
Phone 5-8693

# *Panel Industrial, Inc.*

*Distributors of  
Construction Equipment and Supplies*

159 SOUTH MAIN STREET • CONCORD, N.H.

TEL. CA 5-2726

Sonneborn Building Materials  
Delta Power Tools  
DeWalt Radial Saws  
Schlueter Artic Boy Water Coolers  
Timken Bits  
Crosby Clips  
Aeroquip Hose & Couplings  
Vulcan Drill Steel & Pavement Breaking  
Tools  
Laughlin Drop Forge Fittings  
Dixon Valves & Couplings  
Springs — New & Repaired  
Welding Supplies — Marquette, Victor  
& Stulz-Sickles  
Complete Motor Rebuilding  
Kohler Electric Plants  
Complete stock of all sizes Machine  
Bolts & Cap Screws

## HIGH SCHOOL ERECTED IN RECORD TIME

Hampton Cooperative High School, one of the schools featured in this issue, was erected in record time, according to Paul Harvey, president of the Harvey Construction Company, general contractor for the new high school.

In discussing the new school construction, Mr. Harvey pointed out that the contract was awarded to his company on October 17, 1957 and added that the building was substantially completed on August 1 of this year. The new school was opened for the reception of pupils when the new school year got under way the first week of September. All grading and the finishing touches were completed on October 1.

The Manchester contractor pointed out that weather-wise the winter of 1958 slowed up construction to the point that the job was practically shut down for several weeks.

## **PALMER Plumbing Supply Co.**

Wholesalers

Plumbing - Heating - Mill Supplies

Distributors of

WEIL-McLAIN BOILERS

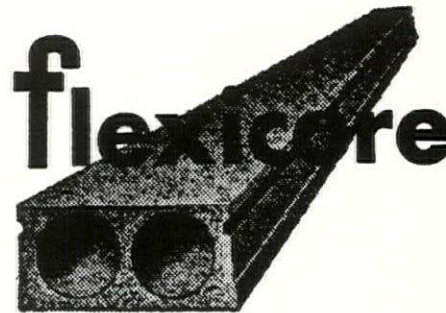
KOHLER ENAMELWARE

PETRO OIL BURNERS

ROCHESTER, LACONIA, N. H.  
PORTLAND, ME.

"Competent Engineering Service"

## DURASTONE FLEXICORE CORP



Long Span Precast Concrete  
Floor and Roof Units

Boston Office:

432 Massachusetts Avenue  
Arlington, Mass.

Phones: MIssion 3-7841 and MIssion 8-0494

HARRY C. A. BEHR, Sales Engineer  
DONALD E. WILKINS





## NEW CURTAIN WALL PANELS IN MAINE, N. H., VERMONT

The Haskelite Manufacturing Corporation, Grand Rapids, Michigan, have announced the appointment of George J. Kehas Co., 30 Amherst Street, Manchester, N. H., their manufacturer's representative for New Hampshire, Maine and Vermont.

Already Hasko-Struct Panels have been specified by M. W. Beck, Architect of Waterville, Maine, for the new Maronite School, Waterville, now under construction by C. H. Vigue & Sons, general contractors of Winslow, Maine.

Through years of research and development, HASKO-STRUCT panels have been designed to meet requirements for light weight, structural strength and constant insulating values, plus low thermal conductivity, and are ideally suited for curtain and window wall applications.

The ease of fabrication and assembly are two very desirable features. Since the surface is prefinished and the panels themselves are non-corrosive, vermin, rot and moisture proof, maintenance costs are held to a minimum.

One standard construction being featured in the building field is the GFCFG panel, having .018" resin impregnated fiberglass faces, 1/8" cement asbestos board interbands and a 2# density Styrofoam core.

The panels may be furnished in job cut sizes from detailed shop drawings and are also available in stock sizes of 48" widths and 96", 120" and 144" lengths. Six standard colors are available: Slate blue, meadow green, forest green, maple red, sand yellow and mist gray.

Technical data, color samples, budget estimates, etc., are available upon request from George J. Kehas.

## Consider, if you will, the advantages of *Color Styling*



Paint and colors in harmony and keeping with school construction have long been a bugaboo to architect and building committees.

Now to eliminate this problem, and at no cost to you use the services of

## A Factory Trained COLOR CONSULTANT

**RALPH KNOETTNER**

9 Woodbury Lane NA 3-7942  
BEDFORD, NEW HAMPSHIRE

Made Available To You Through

## CLARK & STEARNS, INC.

New Hampshire's Leading Paint Distributors  
South Commercial Street Manchester  
NA 3-1402

Representing —

SIPE'S — MARTIN — SENOUR  
CABOT'S — SUPER-KEM - TONE





## Cooperative High School for Hampton, Hampton Falls North Hampton and Seabrook

### DESCRIPTION:

The high school is one of the few examples of a building erected by a cooperative school district in which several towns have pooled their interests and efforts to provide educational facilities which none of the towns could support by itself. The building is essentially divided into several elements as follows:

1. A classroom wing.
2. A commercial department.
3. The arts department housing fine arts, the homemaking arts and the industrial arts.
4. The administrative area.
5. The cafeteria and assembly area.
6. The physical education department

The classroom wing is separated into two integral units called "schools" with a common library between the two schools. Each unit has its own general educational laboratory and its own guidance offices. Each unit will accommodate 350 pupils.

The commercial department has separate rooms for typing, stenography and bookkeeping. In this same area is the main coat-hanging corridor and a commons.

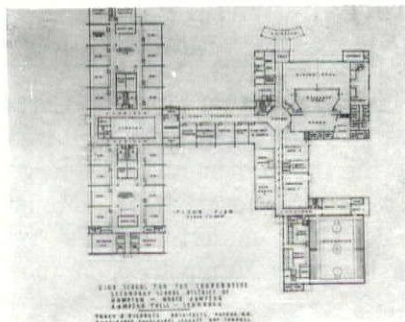
The arts department contains a fine arts room equipped for ceramics, painting, drawing, and other phases of this subject. Adjacent to the fine arts room are two homemaking rooms, separated by a modern residential-type kitchen. The industrial arts department consists of two large shops with central drafting room and library.

The administrative area contains a general office, office for the principal and assistant principal, a health suite and storage rooms.

The cafeteria and assembly area contains a fully-equipped kitchen and dishwashing area, a separate teachers' dining room, a student dining area and an assembly area. The stage is on the same level as the classroom functions and has the music department directly adjacent.

The assembly area is located at a lower level and will seat approximately 300 persons. On an intermediate level is the dining area, so arranged that it can also serve to enlarge the seating capacity of the assembly space to a total capacity of 700 persons.

The gymnasium is 96' x 80' with a folding partition to divide the space into two separate areas. Flanking the gymnasium are the locker rooms, shower rooms and offices for the physical education staff.



A brief outline of materials and structure follows:

### CONSTRUCTION:

Foundations — Concrete; Walls — Facing brick with masonry block backers; Windows—Aluminum awning type; Roof—Steel trusses with Tectum deck over the gymnasium, steel joists and steel decking over the assembly and cafeteria areas, long-span steel decking elsewhere; Insulation—Rigid insulation on roof; Floorings—Maple in gymnasium, ceramic tile in shower and toilet rooms, quarry tile in coat corridor, commons, entrance vestibules, asphalt tile elsewhere; Wall Surfaces—Brick veneer in dining and assembly area, wood and glass partitions between classrooms and corridors, glazed tile wainscots with painted masonry block above used in most other areas; Ceilings—Acoustical tile in cafeteria, exposed Tectum in gymnasium, plaster in shower rooms, exposed steel decking elsewhere with strips of acoustical board inserted in the trough where needed; Skydomes—Plastic skydomes provided for corridors and interior rooms; Electrical—Fluorescent troffers in the troughs of the steel decking, incandescent lighting in cafeteria, gymnasium, showers and toilet rooms, special lighting with dimmer control for stage, flood-lighting for exterior.

Clock and program system, firealarm system, intercommunicating telephone system, television system; Plumbing—Showers with gang control, toilet rooms equipped with standard fixtures, wash basins in Industrial Arts Shops, special acid-resisting sinks in Laboratories, dark room sink, electrical water coolers, hose bibbs; Refrigeration—Walk-in refrigerator, reach-in refrigerator, freezer; Heating and Ventilating—Two oil-fired, hot water boilers, zoned hot-water system, unit ventilators, unit heaters, finned-tube radiation, pneumatic temperature control system, mechanical ventilation for toilet rooms and interior rooms, incinerator.

**Tracy and Hildreth, A.I.A., Architects - Nashua, N. H.**

**HARVEY CONSTRUCTION CO., INC., MANCHESTER, N. H.**

GENERAL CONTRACTOR



**FRANCIS P. CONNOR  
& SON, INC.**

**Plastering Contractor**

for

KEENE TEACHERS COLLEGE  
VOCATIONAL BUILDING  
HAMPTON COOPERATIVE SCHOOL  
PEASE AIR FORCE BASE  
ELEMENTARY SCHOOL

12 John Street      Dial TU 2-0451  
NASHUA, N. H.

**R. C. Peabody Co., Inc.**

Plumbing • Heating • Sprinkler

**Contractors**

Sales - Installation - Service

720 Union St.      Dial 2-0824

Manchester, N. H.

**Plumbing - Heating**

for

COOPERATIVE HIGH SCHOOL

Hampton, N. H.



1662 Elm Street

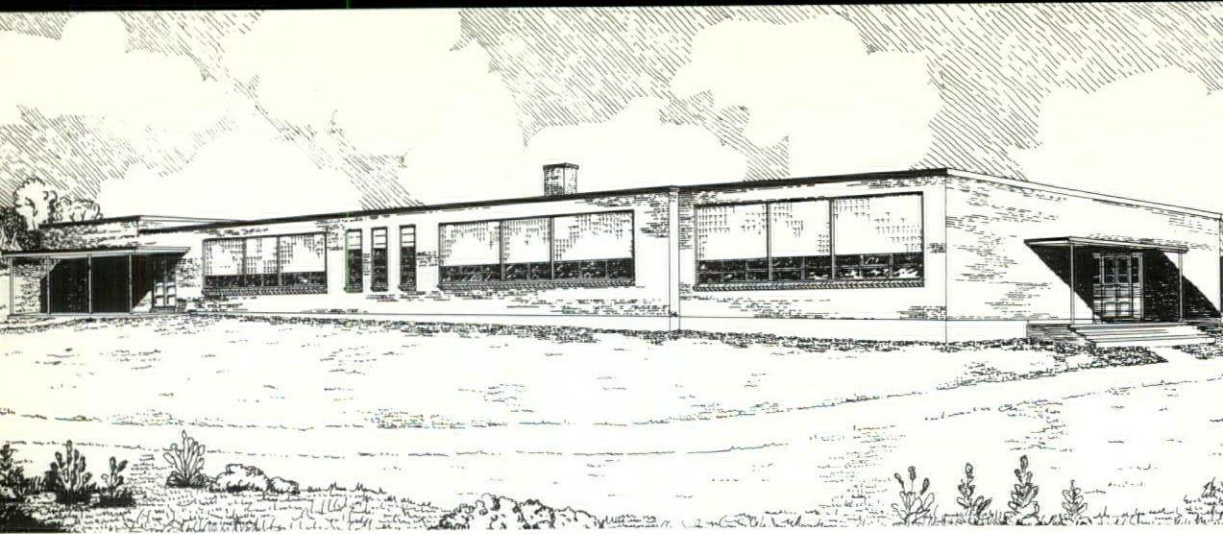
Tel. NA 2-3745

**GENERAL CONTRACTOR**

For

**COOPERATIVE HIGH SCHOOL**

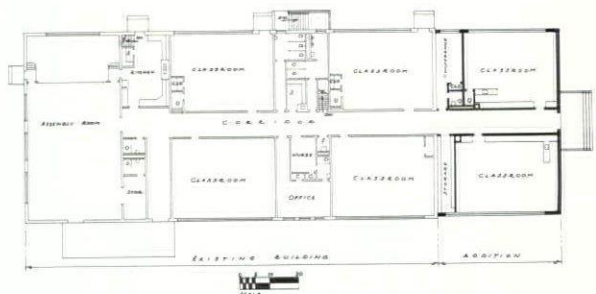
**HAMPTON, N. H.**



## Holderness School Addition, Holderness

### DESCRIPTION:

Foundations — Concrete, full crawl space; Exterior Walls—Brick face, cinder block back-up; Interior Partitions—Cinder block painted; Floor Construction—Bar joists, steel centering, 2½" concrete slab, asphalt tile; Roof Construction—Bar joists, wood plank, rigid insulation, bonded built-up roof; Ceiling Finish—Acoustical tile on metal suspension; Fenestration — Steel sash ribbon windows and directional glass blocks; Heating and Ventilating—Extension of original 2-pipe steam system designed and capped for this addition. Unit ventilators in classrooms, mechanical exhausts, individual room control, #2 oil; Plumbing—First quality fixtures, copper water piping, cast iron waste connected to disposal system designed for this addition; Electric—Extended from panel in old building designed for this addition. Incandescent fixtures.



ADDITION  
TO ELEMENTARY SCHOOL  
HOLDERNESS NEW HAMPSHIRE  
GRAY & INGRAM - ARCHITECTS & ENGINEERS - HANOVER - NH

ITEM	Cost	% of Total Cost	Cost Per Sq. Ft.	Cost Per Cu. Ft.
STRUCTURE.....	\$27,553.00	80.7	\$ 9.82	\$ .60
PLUMB., HEAT., VENT.....	5,650.00	16.5	2.02	.12
ELECTRICAL.....	960.00	2.8	.34	.02
<b>TOTAL COST OF BUILDING.....</b>	<b>\$34,163.00</b>	<b>100.0</b>	<b>\$12.18</b>	<b>\$ .74</b>

TOTAL VOLUME: 45,900 cu. ft.—FLOOR AREA: 2,805 sq. ft.—DATE  
OF BIDS: July 25, 1958—CEILING HEIGHT: 11'-7".

**Gray and Ingram, A.I.A., Architects - Hanover, N. H.**

**ROLFE CAMP COMPANY, INC., FRANKLIN, N. H.**  
GENERAL CONTRACTOR



# NORTHERN

HEATING & PLUMBING CO., INC.

A. C. TROMBLY, President

Plumbing, Heating and Ventilation  
Contractors - Engineers

## Plumbing and Heating

at

UNIVERSITY of NEW HAMPSHIRE  
DORMITORY

and

HOLDERNESS

ELEMENTARY SCHOOL ADDITION

Serving Northern New Hampshire in Domestic,  
Commercial and Industrial Installations

91 Bisson Ave. Laconia, N. H.

Tel. Laconia 706

## Rolfe Camp Co., Inc.

GENERAL CONTRACTORS

200 Central Street

FRANKLIN, N. H.

Tel. 752



## General Contractors

for

HOLDERNESS

ELEMENTARY SCHOOL ADDITION

Holderness, N. H.

Of greatest importance . . .

## CORRECT LIGHTING

in today's schools!

Reddy Kilowatt can supply power for schoolhouse lighting but only you, the architect, can plan adequate lighting. Don't cheat the eyes of students . . . proper light is a comparatively small item in the total cost of construction.

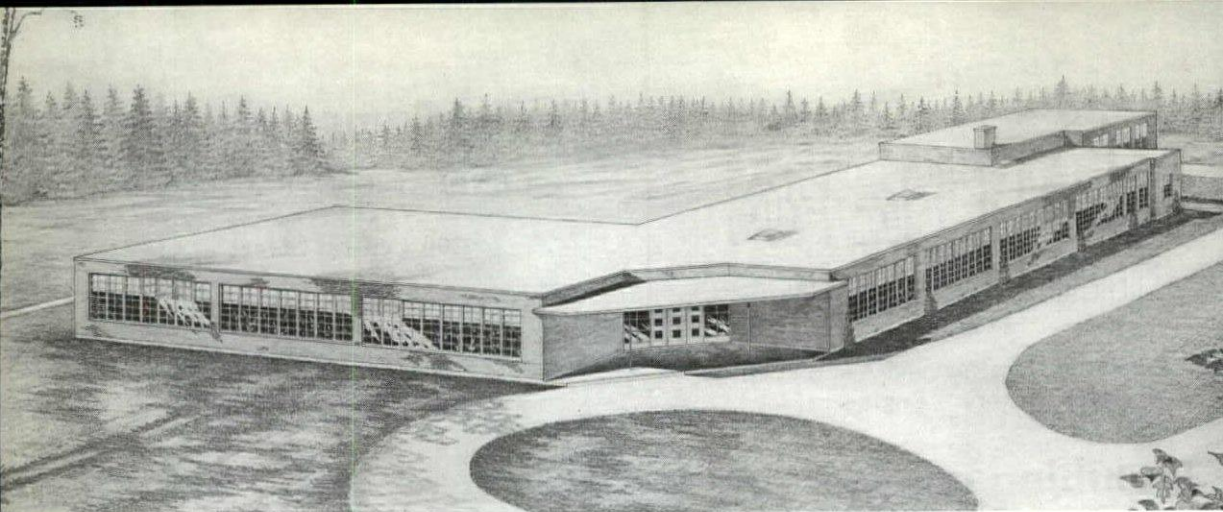
The planning of such a system proceeds along standardized lines, but new ideas and methods are developed every day by the best minds in the profession.

We would be most happy to consult with you on any detail problem if you so desire . . . we are constantly receiving new data, and our time is at your disposal.

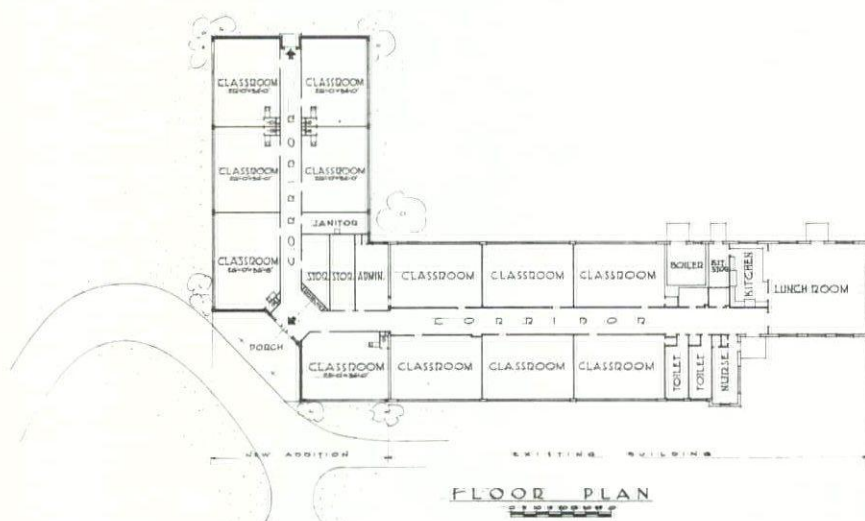
Call or write our office — any time!



**Public Service Company of New Hampshire  
and New Hampshire Electric Company**



## Additions and Alterations to Elementary School Building, Hollis



### DESCRIPTION:

Reinforced Concrete Foundations, Reinforced Dampproofed Concrete Floor Slabs, Structural Steel Frame, Precast Concrete Insulating Roof Decking, Twenty Year Bonded Roof. Lead Coated Copper Flashings, Aluminum Sash, Brick Facing with Cinder Tile Backing, Cinder Tile

Interior Partitions, Acoustical Tile Ceilings, Asphalt Tile Floors, Steel Interior Door Frames, Large Glazed Areas in Corridor, Large Display Area in Lobby, Sixteen (16) Plumbing Fixtures, Extension of present Hot Water Heating System, Forced Ventilation.

ITEM	Cost	% of Total Cost	Cost Per Sq. Ft.	Cost Per Cu. Ft.
STRUCTURE.....	\$65,417.22	73.6	\$ 8.03	\$ .618
PLUMBING.....	6,242.00	7.0	.76	.059
HEATING & VENTILATING.....	13,915.00	15.6	1.71	.131
ELECTRICAL.....	3,323.10	3.8	.41	.031
<b>TOTAL COST OF BUILDING.....</b>	<b>\$88,897.32</b>	<b>100.0</b>	<b>\$10.91</b>	<b>\$ .839</b>

TOTAL VOLUME: 105,846 cu. ft.—TOTAL FLOOR AREA: 8,142 sq. ft.  
—CEILING HEIGHT: 10'-0".

**Irving W. Hersey Associates, A.I.A., Architects - Durham, N. H.**

**ANDRE COURCHESNE, MANCHESTER, N. H.**  
GENERAL CONTRACTOR



## **ERNEST E. NICHOLS**

2 Sheridan St. Tel. TU 2-3791  
NASHUA, N. H.

Plumbing - Heating  
Sprinkler Installation  
Industrial Maintenance  
Oil Burner Sales and Service

## **Plumbing - Heating Ventilating**

at  
HOLLIS ELEMENTARY SCHOOL  
Hollis, N. H.

## **ANDRE COURCHESNE**

Greer St., R. F. D. #4  
MANCHESTER, N. H.  
Tel. NA 2-4179

## **General Contractor**

for  
HOLLIS ELEMENTARY SCHOOL  
Hollis, N. H.

also  
BUILDER OF  
Administration Building and  
Toll Collectors Station at  
New Hampshire Turnpike  
New Hampshire Distributors  
Office and Warehouse  
Concord, N. H.

## **ROWELL & MILLER**

## **Electrical Contractors**

BOX 123

154 WEBSTER ST. HUDSON, N. H.

Tel. TUxedo 3-7053 - TU 3-7993 - TU 3-7098

---

## **Electrical Contractors**

AT

Hollis Elementary School  
Hollis, N. H.

Merrimack High School Addition  
Merrimack, N. H.

## **BARRETT FLOORING COMPANY**

Quality Floors Since 1932

P. O. BOX 246 BEDFORD  
MASSACHUSETTS

## **SUPPLIERS AND INSTALLERS**

B. F. Goodrich Kentile Kenflex

Products at

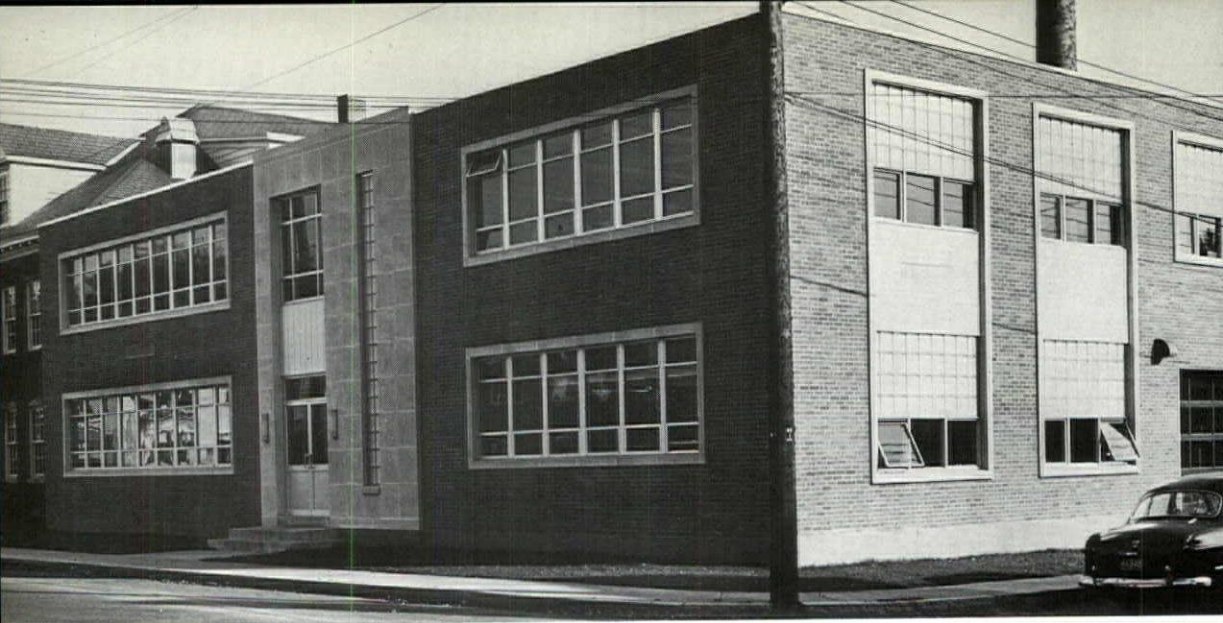
PEERLESS INSURANCE COMPANY  
Keene, N. H.

Vocational Building, Keene Teachers College  
Keene, N. H.

Sawyer Center, Colby Junior College  
New London, N. H.

HOLLIS ELEMENTARY SCHOOL  
Hollis, N. H.

Lebanon High School, Lebanon, N. H.



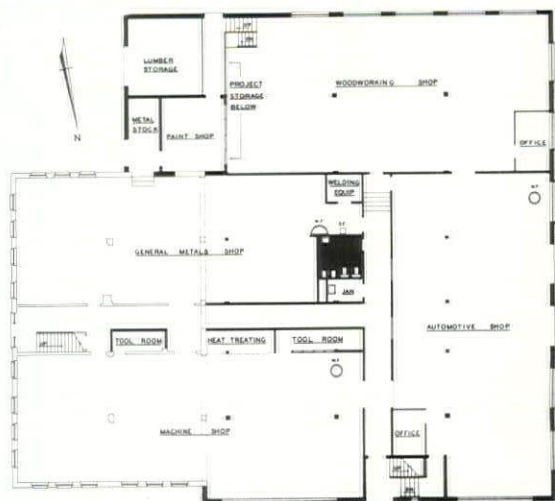
## Keene Teachers' College Vocational Building

### DESCRIPTION OF ALTERATION WORK:

The original Vocational Building, consisting of three floors, was completely remodeled. New lighting, heating, and floor coverings were installed in all areas. The complete building was repainted. The West exterior wall was removed to permit enlarging three shop areas.

### DESCRIPTION OF NEW WORK:

Foundations—reinforced concrete; Frame—structural steel columns and girders, junior I beams floor and roof framing; Exterior Walls—cinder concrete block and brick veneer; Roofing—20-year bonded roof on Tectum roof plank with bonded built-up flashing and extruded aluminum coping; Floors—reinforced concrete first floor, reinforced concrete on Corruform second floor. Flooring: Vinyl asbestos, block wood flooring in carpenter shop and ceramic tile; Interior Partitions—cinder concrete blocks first floor—movable rockface office partitions second floor; Wainscots—ceramic tile, polished concrete blocks; Ceilings—hard plaster and acoustical plaster; Doors—solid core wood with pressed steel frames; Windows—aluminum sash and glass block with



cast stone trim; Electrical—fluorescent lighting, power bus ducts and AC-DC science panel; Heating—unit ventilators, fin tube and unit heaters, all rooms individually controlled, steam supply from Central Boiler.

ITEM	Cost	% of Total Cost	Cost Per Sq. Ft.	Cost Per Cu. Ft.
STRUCTURE.....	\$174,947.00	72.4	\$ 9.35	\$ .72
PLUMBING.....	15,010.00	6.2	.83	.06
HEATING & VENTILATING.....	22,000.00	9.2	1.15	.09
ELECTRICAL.....	30,000.00	12.2	1.55	.12
<b>TOTAL COST OF BUILDING.....</b>	<b>\$241,957.00*</b>	<b>100.0</b>	<b>\$12.90</b>	<b>\$ .99</b>

\* Includes renovation of existing building.

NEW ADDITION VOLUME: 244,500 cu. ft.—FLOOR AREA: 18,688 sq. ft.—DATE OF BIDS: November 7, 1957—COMPLETED: September 1, 1958.

**John R. Holbrook Associates, A.I.A., Architects - Keene, N. H.**

**THE MacMILLIN CO., INC., KEENE, N. H.**  
GENERAL CONTRACTOR



# **Plumbing and Heating Ventilating**

— for —

KEENE TEACHERS COLLEGE  
VOCATIONAL BUILDING  
Keene, New Hampshire

## **RIVERS and HENRY**

O. A. Rivers                      R. H. Henry

KEENE N. H.

Rear 97 Main St.                      Tel. 2044

# **The MacMILLIN COMPANY, INC. BUILDERS**

**Keene, N H.**



## **BUILDERS**

of

KEENE TEACHERS COLLEGE  
VOCATIONAL BUILDING  
Keene, New Hampshire

# **The Beautiful Garage Doors**

for the

KEENE TEACHERS COLLEGE  
VOCATIONAL BUILDING  
are

## **Eastern Garage Doors**



**BUY THE BEST  
BUY EASTERN!**

INDUSTRIAL  
COMMERCIAL  
RESIDENTIAL  
PLANNING  
BLUEPRINTING

## **Electrical Contractor**

— for —

KEENE TEACHERS COLLEGE  
VOCATIONAL BUILDING  
Keene, New Hampshire

## **PHILIP D. MORAN**

Keene, N. H.

103 Winchester St.

Tel. EL 2-2215

HEATING  
VENTILATING  
MACHINE ERECTING  
MILLWRIGHT WORK

# AL MELANSON Company, Inc.

## Roofing Contractors

for

Hopkinton Elementary, Hopkinton  
St. Mary's High School, Claremont  
Laura S. Barnes Elementary, Lyme

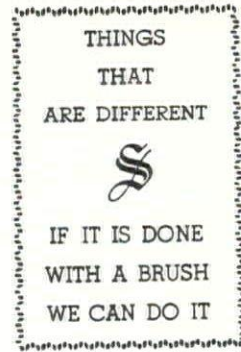
Keene Teachers College  
Vocational Building

Whitingham School, Jacksonville, Vt.

SHEET METAL - WATER PROOFING  
CONTRACTORS

353 WEST ST. KEENE, N. H.  
22 E. Broadway, Gardner, Mass.

# SYD'S PAINT SHOP



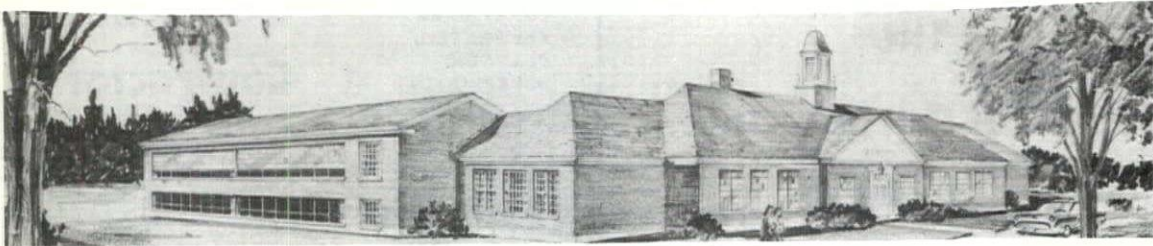
PAINTING CONTRACTOR  
for

KEENE TEACHERS COLLEGE  
VOCATIONAL BUILDING

84 WATER STREET

Keene, New Hampshire

## Daniel J. Bakie Memorial School, Kingston (Addition and Alterations)



### DESCRIPTION:

Footings and foundation walls—reinforced concrete; exterior walls—brick veneer on cinder concrete back-up; ground floor—reinforced concrete slab on drainage fill; first floor—flexicore precast slabs; roof construction—trussed wood rafters; roofing—asphalt shingles; insulation in all attic areas; interior and exterior door frames—wood and steel; windows in corridors, all-purpose room, kitchen, etc.: Andersen's "Pressure Seal"; windows in classrooms—aluminum sash

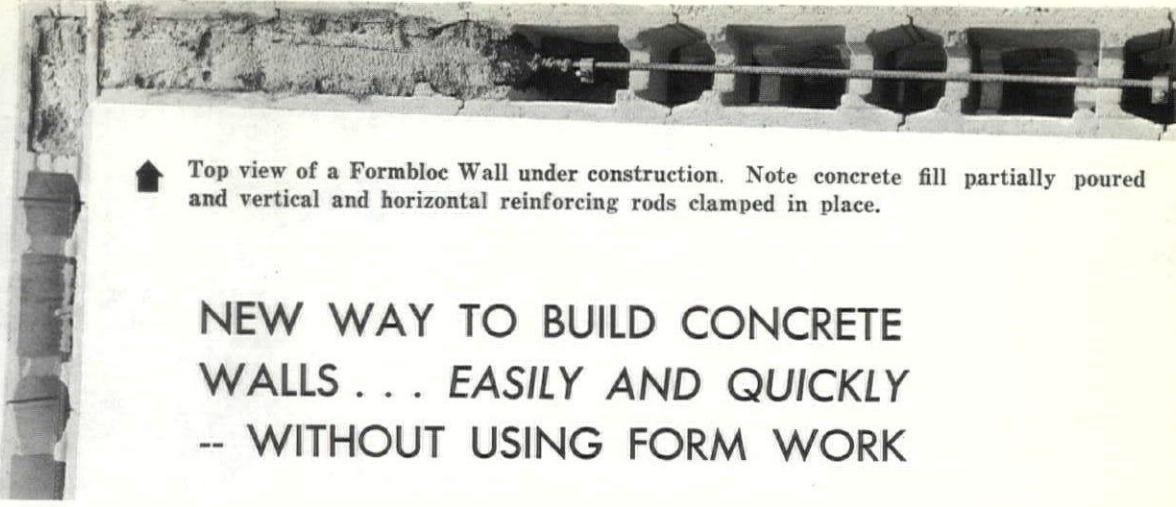
and frame "ribbon sash"; light directional glass block above "ribbon sash"; ceilings—acoustical tile; finished floors—asphalt tile; dadoses of corridors and auditorium—salt glazed structural tile; Mosaic tile floors in toilet rooms; kitchen equipment—wood with stainless steel and Formica counters; heating—forced hot water with area zoned control including thermostatically controlled radiation in each room, including renovation of existing rooms; ventilation—mechanical; electrical—lighting—incandescent..

ITEM	Cost	% of Total Cost	Cost Per Sq. Ft.	Cost Per Cu. Ft.
STRUCTURAL.....	\$71,859.00	78.5	\$7.18	\$ .19
PAINTING.....	2,995.00	3.5	.33	.13
ELECTRICAL.....	3,572.00	4.2	.39	.16
HEATING & VENTILATING.....	12,100.00	9.0	1.34	.53
PLUMBING.....	4,447.00	4.8	.49	.19
<b>TOTAL COST OF BUILDING.....</b>	<b>\$94,973.00</b>	<b>100.0</b>	<b>\$9.73</b>	<b>\$1.20</b>

TOTAL VOLUME: 226,073 cu. ft.—FLOOR AREA: 9,067 sq. ft.—DATE  
OF BIDS: July 1, 1958.

**Maurice E. Witmer, A.I.A., Architect - Portsmouth, N. H.**





▲ Top view of a Formbloc Wall under construction. Note concrete fill partially poured and vertical and horizontal reinforcing rods clamped in place.

NEW WAY TO BUILD CONCRETE  
WALLS . . . EASILY AND QUICKLY  
-- WITHOUT USING FORM WORK

*Save School Building Cost*  
*With* **FORMBLOC**

**SAVE MATERIAL, LABOR, TIME  
FUEL AND UPKEEP —**

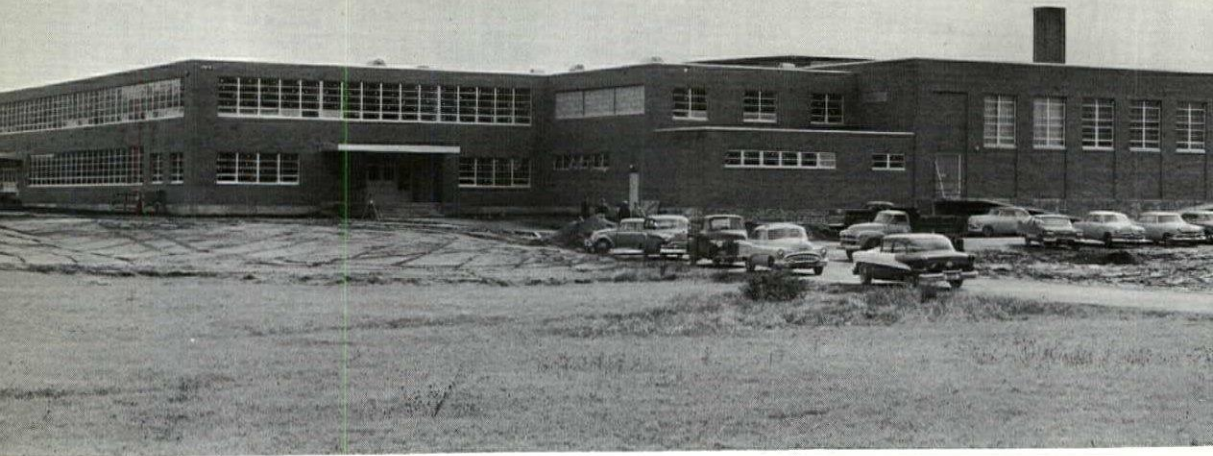
- **REINFORCED CONCRETE  
FOUNDATION WALLS**
- **INSULATED EXTERIOR  
MASONRY WALLS**

IT WILL PAY YOU TO INVESTIGATE

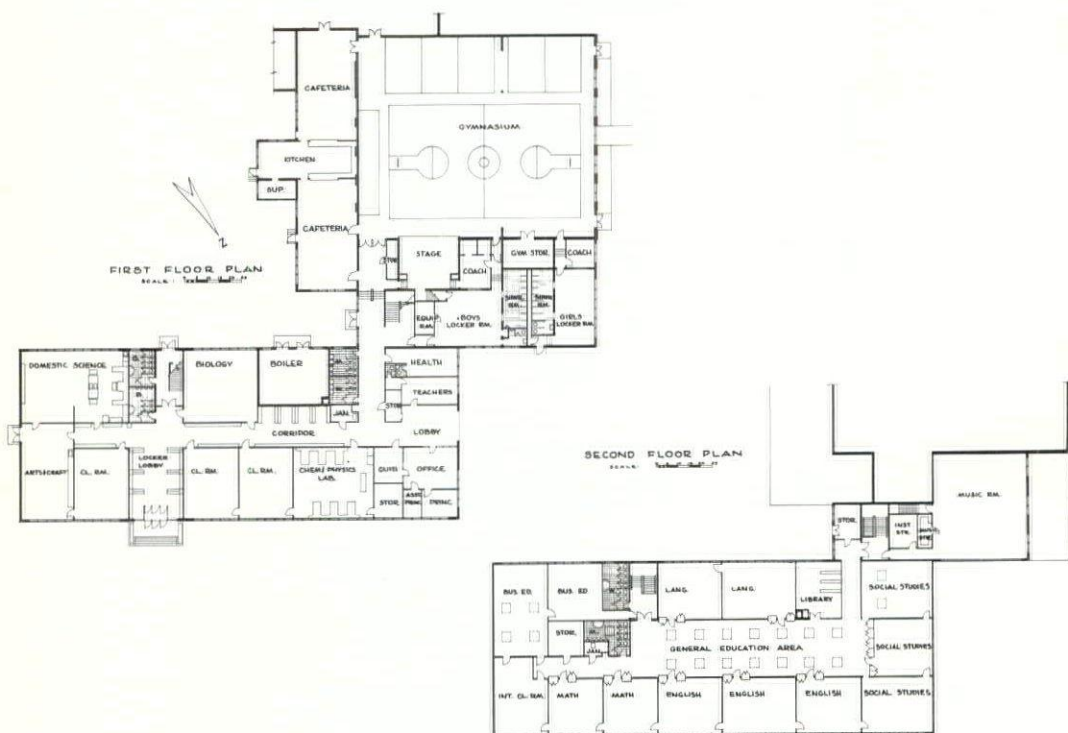
**FORMBLOC -** CALL or WRITE  
for FULL DETAILS

**Duracrete Block Co. Inc.**  
Phone—NA 4-1293  
MANCHESTER, N. H.

**Arthur Whitcomb, Inc.**  
Phone—ELwood 2-0101  
KEENE, N. H.



## Lebanon High School - Lebanon



ITEM	Cost	% of Total Cost	Cost Per Sq. Ft.	Cost Per Cu. Ft.
STRUCTURE.....	\$359,279.00	73.5	\$ 8.42	\$ .62
PLUMB., HEAT., VENT.....	86,150.00	17.9	2.03	.15
ELECTRICAL.....	41,950.00	8.6	.98	.07
<b>TOTAL COST OF BUILDING.....</b>	<b>\$487,379.00</b>	<b>100.0</b>	<b>\$11.43</b>	<b>\$ .84</b>

DATE OF BIDS: December 10, 1957—TOTAL AREA: 42,660 sq. ft.—  
TOTAL CUBIC VOLUME 580,772 cu. ft.

**John R. Holbrook Associates, A.I.A., Architects - Keene, N. H.**

**TRUMBULL NELSON CO., INC., HANOVER, N. H.**  
GENERAL CONTRACTOR



## **Randall Company, Inc.**

RUTLAND, VT.

272 So. Main St. Tel. P ROspect 3-2791



### **Plumbing - Heating and Ventilating**

for

**Lebanon  
High  
School**

## **FRANK T. CODY CO. Electrical Contractors**

HANOVER, N. H.

Phone Hanover 720

ELECTRICAL CONTRACTORS

for

LEBANON HIGH SCHOOL

BROWN SCHOOL

Berlin, N. H.

COLEBROOK

ELEMENTARY SCHOOL

GROVETON, N. H. ELEMENTARY,  
and HIGH SCHOOL ADDITIONS

# **TRUMBULL-NELSON COMPANY, INC.**

**HANOVER, NEW HAMPSHIRE**

**Telephone 58**



*General Contractors*

**LEBANON HIGH SCHOOL - LEBANON, N. H.**



**STRUCTURAL  
CONCRETE  
CORPORATION**

For Better School Construction  
Use Concrete Double Tee Slabs  
ECONOMICAL FIREPROOF ATTRACTIVE

Lakeport P.O. Box 132 - Laconia, N. H.  
Phone 2718

## CAPITOL PLUMBING & HEATING SUPPLY CO.



### WHOLESALE DISTRIBUTORS FOR:

YOUNGSTOWN STEEL KITCHENS  
ELJER PLUMBING FIXTURES  
NATIONAL - U. S. HEATING  
KOVEN BOILERS & WATER HEATERS  
MINNEAPOLIS - HONEYWELL CONTROLS  
BARNES & JONES TRAPS  
TACO HEATING SPECIALTIES  
BELL & GOSSETT SPECIALTIES  
DOLE VALVES  
SYMMONS SAFETY MIX VALVES  
ELKAY STAINLESS STEEL SINKS  
GOULD WATER SYSTEMS

All Other Nationally Advertised Brands

DIAL CA 4-1901 or 4-1902

Ward Ave. Concord, New Hampshire

## *Dutch Boy* —THE NAME TO GO BUY—FOR EVERY PAINT JOB

First choice of professional painters—first choice with home owners—that's *Dutch Boy*. There's a *Dutch Boy* finish specially blended for every painting need, inside or outside your home, and you can depend on it for long-lasting beauty. Choose yours today at—



PAINT DEPARTMENT  
Main Store — Street Floor  
BUILDERS' PAINT DEPARTMENT  
Opposite Main Store  
(Rear of State Theatre)

EXCLUSIVE DEALER  
**J. J. MOREAU & SON, INC**

MANCHESTER, N. H.  
Dial 4-4311

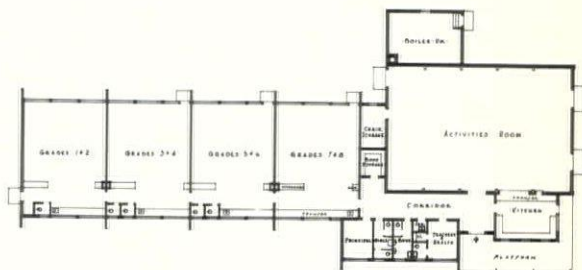




## Laura Smith Barnes School - Lyme

### DESCRIPTION:

**FOUNDATIONS:** Concrete. **FLOORS:** Reinforced concrete slab on gravel. **EXTERIOR WALLS:** Concrete block faced with brick. **INTERIOR WALLS:** Concrete block. **FRAMING:** Laminated wood beams with 3" wood deck over Class Rooms. Laminated wood arches with 4" wood deck over Activities Room. **ROOF:** 20-year bonded tar and gravel over Class Rooms. Asphalt shingles over Activities Room. **CEILING:** Acoustic tile over Class Rooms. Natural wood over Activities Room. **WINDOWS:** Prefabricated wood units. **FLOORS:** Asphalt tile. **HEATING:** Oil; forced hot water; continuous convectors under Class Room windows; console unit heaters in Activities Room. **FORCED EXHAUST:** **PLUMBING:** Well water. Septic tank and 3 leaching cesspools. **ELECTRIC:** Fluorescent fixtures.



Basis of Contract: Cost plus Fee. Completed January 1, 1958.

ITEM	Cost	% of Total Cost	Cost Per Sq. Ft.	Cost Per Cu. Ft.
STRUCTURE.....	\$74,671.00	75.9	\$ 7.97	\$ .61
PLUMB., HEAT., VENT.....	18,000.00	18.3	1.92	.15
ELECTRICAL.....	5,687.00	5.8	.61	.05
<b>TOTAL COST OF BUILDING.....</b>	<b>\$98,358.00</b>	<b>100.0</b>	<b>\$10.50</b>	<b>\$ .81</b>

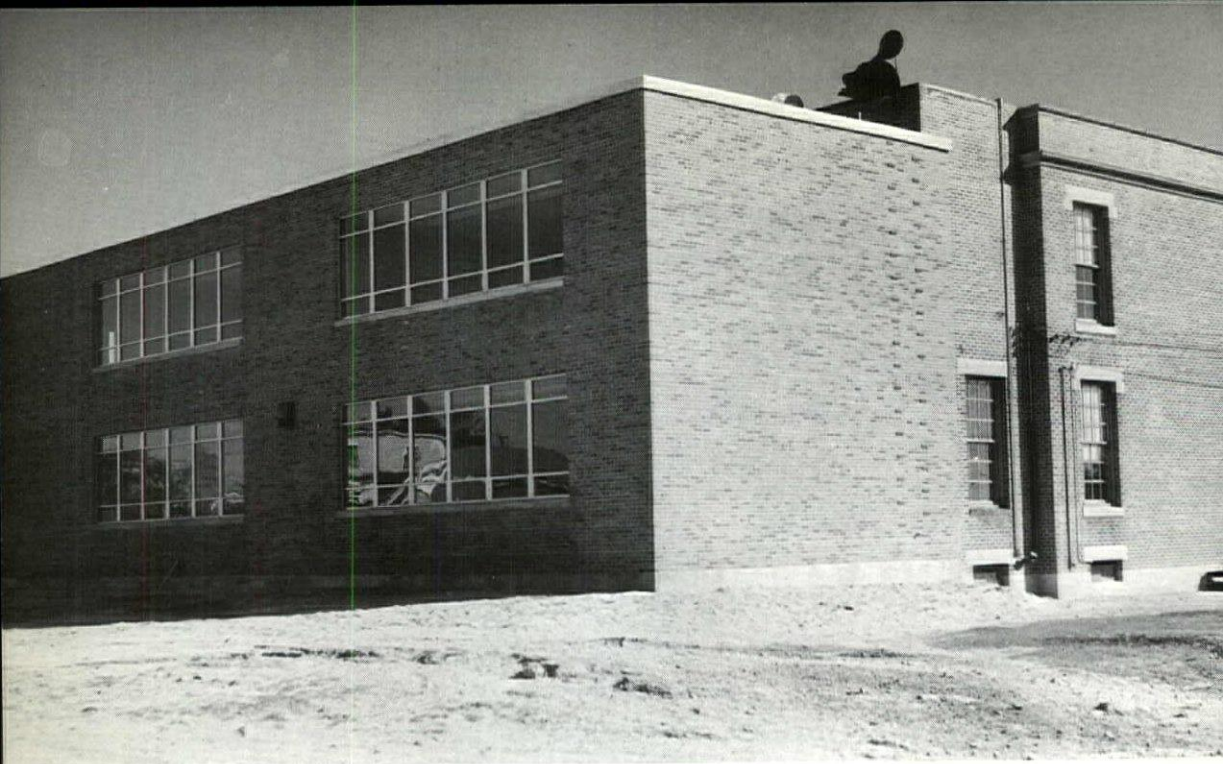
TOTAL VOLUME: 121,955 cu. ft.—TOTAL AREA: 9,362 sq. ft.

**W. Brooke Fleck, A.I.A., Architect, - Hanover, N. H.**

**MILLARD ULINE, LYME, N. H.**

**GENERAL CONTRACTOR**





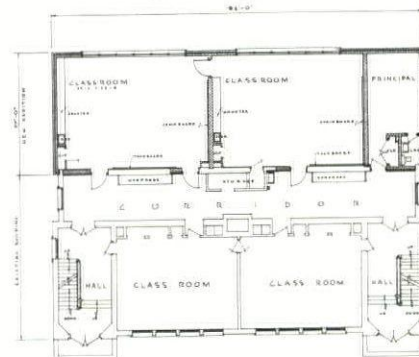
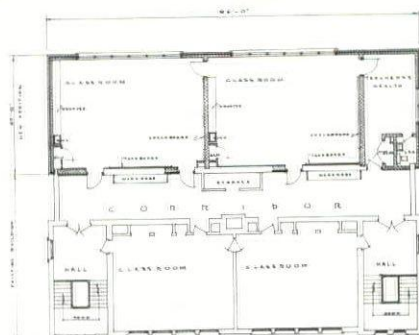
## Weston School, Manchester, N. H.

### DESCRIPTION:

Four new classrooms, principal's office, teachers and health room, new plumbing fixtures to meet state requirements for the increase in pupil capacity. The existing building, designed by C. R. Whitcher in 1922, was planned for a future addition. This new addition along the north wall of the building is now complete and in use making this an eight room school building.

### CONSTRUCTION DATA:

Concrete foundation and footings, temporary reinforcing, exterior walls brick veneer with concrete block back-up, load bearing interior walls, concrete block, first floor: slab on grade—second floor and roof frame: L. S. steel joists, concrete slab on corruforn—second floor: precast roof decking and twenty year bonded roof—asphalt tile finish floors, interior partitions, concrete block, acoustical plaster ceilings, existing brick walls which formed the south wall of the classrooms was strapped and plastered, corridor terrazo floors and base were patched where new openings were cut through, metal door bucks and frames, solid core, flush birch doors, aluminum windows, fluorescent lighting fixtures, heating system was extended, boiler increased for the new addition, all new classrooms and toilets are ventilated mechanically.



ITEM	Cost	% of Total Cost	Cost Per Sq. Ft.
STRUCTURE.....	\$40,814.00	78.2	\$ 9.11
PLUMB., HEAT., VENT.....	8,800.00	16.9	1.97
ELECTRICAL.....	2,575.00	4.9	.57
<b>TOTAL COST OF BUILDING.....</b>	<b>\$52,189.00</b>	<b>100.0</b>	<b>\$11.65</b>

**Andrew C. Isaak, A.I.A., Architect - Manchester, N. H.**

**GAMACHE CONSTRUCTION CO., INC., MANCHESTER, N. H.**

**GENERAL CONTRACTOR**



# *Michael's*

## **Floor & Wall Coverings**

353 Spruce St. Tel. NA 2-7422

MANCHESTER, N. H.

Suppliers and Installers

of

ASBESTOS and VINYL

FLOORING

at

WESTON SCHOOL

Manchester, N. H.

MEN'S DORMITORY

PLYMOUTH TEACHERS COLLEGE

Plymouth, N. H.

BROWN SCHOOL - BERLIN, N. H.

## **Lathing and Plastering**

— at —

**WESTON SCHOOL**

**Manchester, N. H.**

— by —

**P. H. McGRANAHAN**

**COMPANY, INC.**

555 Valley St. Manchester, N. H.

Dial 2-9373

L A T H I N G

by

ECONOMY SYSTEM OF LATHING

Manchester, N. H.

## **GEORGE J. KEHAS CO.**

30 AMHERST STREET • MANCHESTER, N. H.

Authorized Factory Representative for VALLEY METAL PRODUCTS COMPANY  
Since 1950

GIVES YOU

## **VAMPCO VERSATILITY AT ITS FINEST**

### **PEASE AIR FORCE BASE ELEMENTARY SCHOOL**

Furnishing and installing Vampco Aluminum Series 600 Heavy Ribbon Windows at Classrooms and Vampco Aluminum Series 2000-2" Curtain Wall at Multi-purpose, Library, and Administration Areas.

### **WESTON SCHOOL**

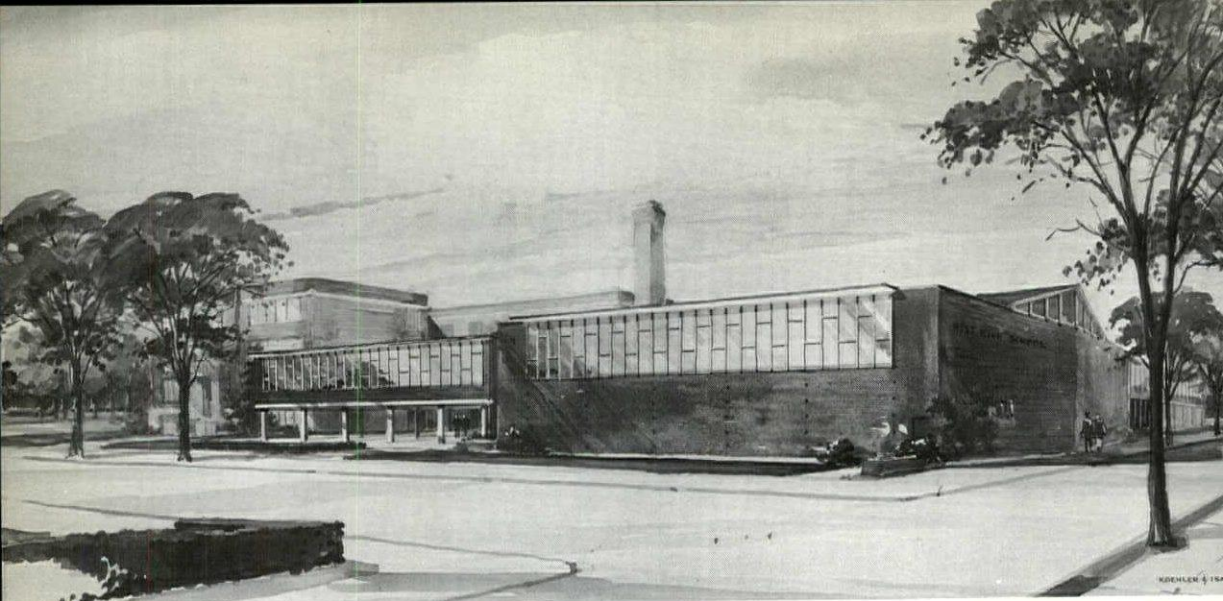
Vampco Series 100 Intermediate Projected Aluminum Windows, Hollow Metal Door Frames.

### **DALTON SCHOOL**

Vampco Series 100 Intermediate Projected Aluminum Windows, American Sanitary Partition Corp. Metal Toilet Partitions.

### **RAYMOND SCHOOL**

Vampco Series 100 Intermediate Projected Aluminum Windows, Haskelite Hasko-Struct Panels at Main Entrance.



## Additions and Alterations to West High School, Manchester

### DESCRIPTION:

The problem posed in the additions and alterations of West High School is one faced by many communities in their expansion programs: Limited budget, limited ground area; expanded school enrollment, expanded curricula.

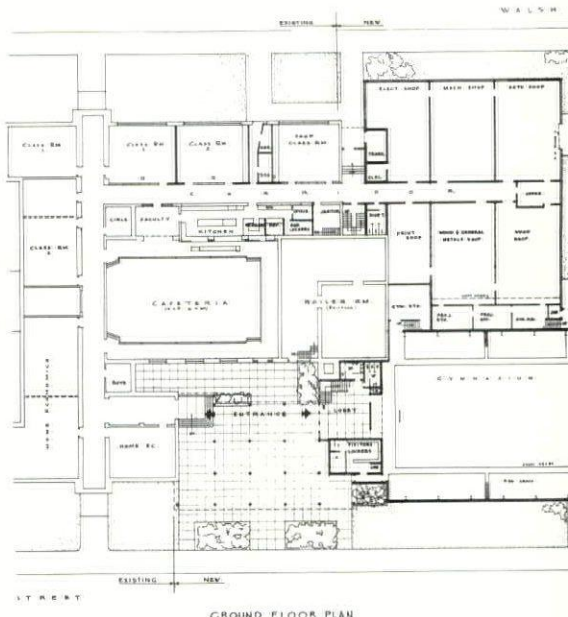
The ground area is bounded by four highly trafficked streets, seventy-five per cent of that ground area is covered by the present High School. The remaining twenty-five per cent dictated that expansion was only possible in one direction which was up. Heavy equipment in the Shops and athletic activity in the Gymnasium are on the ground floor, with Science, Lecture, Library and Study Halls on the upper level.

The budget is \$700,000 for additions, alteration, equipment and fees.

The added classrooms and altered existing areas to classrooms plus the existing facilities provide a flexibility in space use to meet the educational demands of 900 students.

### CONSTRUCTION:

Foundations—Reinforced concrete; Structural—Steel frame, fireproofed and reinforced concrete floor slabs; Exterior Walls—Brick veneer with concrete block backup; Roof—Steel Frame, Porex insulated slabs, T & G roof over Classrooms, steel bents, purlins, cedar T & G 3" plank exposed to interior, S.I.S. roofing with T & G gutter areas over Gymnasium, Long span steel joists, Porex insulated slabs over Library, Study Hall; Interior Partitions—Concrete Block, Structural Glazed Tile in Shower Rooms; Ceilings—Acoustical Plaster, painted concrete; Flooring—Hardwood gymnasium floor, ceramic tile shower



floors, Quarry Tile in Lobby, Asphalt Tile throughout except vinyl acid resisting in laboratories; DOORS—Solid core flush plywood; Door Frames—Steel; Windows—Aluminum fixed and operating; Heating—Existing Boilers, steam, fin tube, unit heaters; Ventilation—Complete throughout additions; Plumbing—Showers, toilets etc. copper piping; Electrical—Fluorescent fixtures; Equipment—Special purpose rooms, laboratories, cafeteria, shops and home economics.

Mechanical Engineer—Richard D. Kimball Co., Boston, Mass

Electrical Engineer—Albert Stock, Wolfeboro, N. H.

Structural Engineer—J. U. Wiesendanger, Winthrop, Maine

**Koehler and Isaak, A.I.A., Architects, - Manchester, N. H.**



## Roofing Contractor

For

RAYMOND  
CONSOLIDATED SCHOOL  
ADDITION  
Raymond, N. H.

D. G. HOULE CO., INC.

BONDED ROOFERS



Roofing - Siding - Sheet Metal

No. Commercial St. Manchester, N. H.

Dial NA 2-9163

## Painting Contractor

at

Weston School, Manchester, N. H.  
University of New Hampshire  
Men's Dormitory

INTERIOR & EXTERIOR  
**Painting**

Paper Hanging & Decorating  
Mural Work & Color Styling  
Floor Sanding & Refinishing  
Canvas Ceilings Installed  
Industrial & Commercial Spray Painting

**Herbert W. Paul**

Res. Bedford GR 2-5484  
173 Douglas Street  
Manchester

DIAL  
NA 3-6525

# B R I C K

SUPPLIED AT

Hollis

Pease AF Base

Sanbornton

Weston

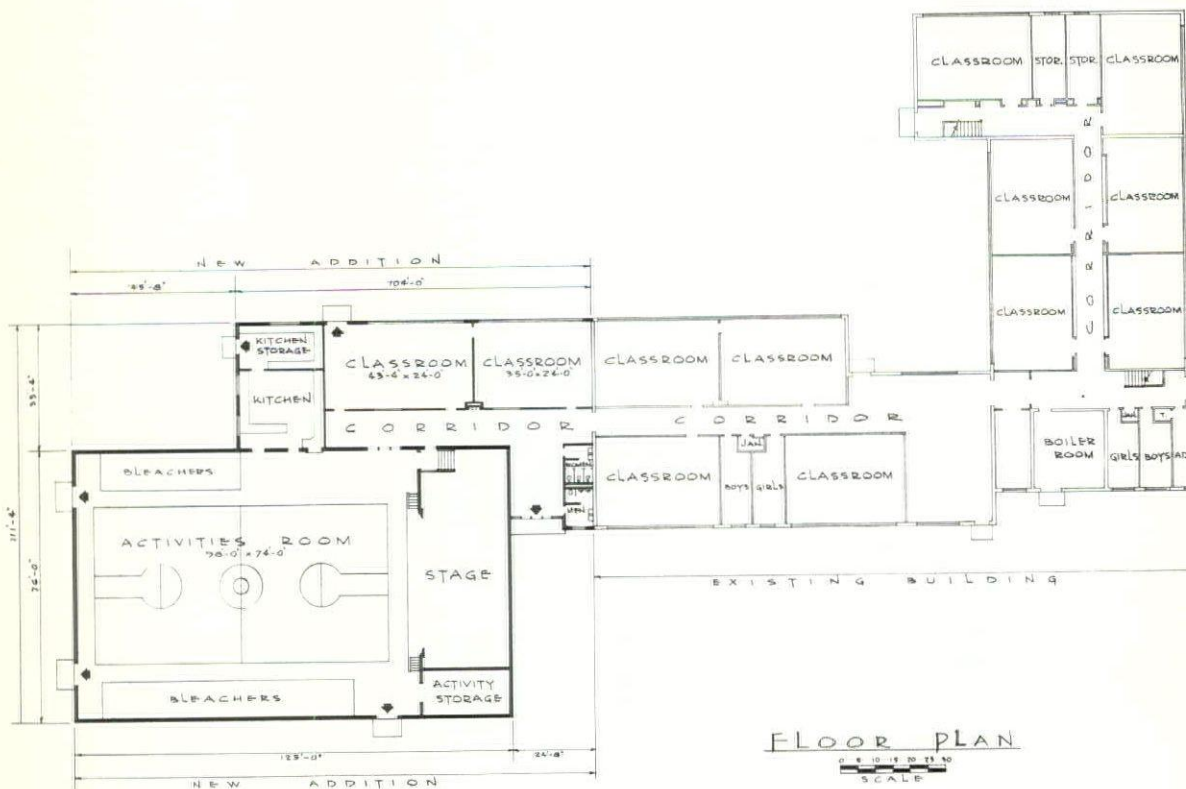
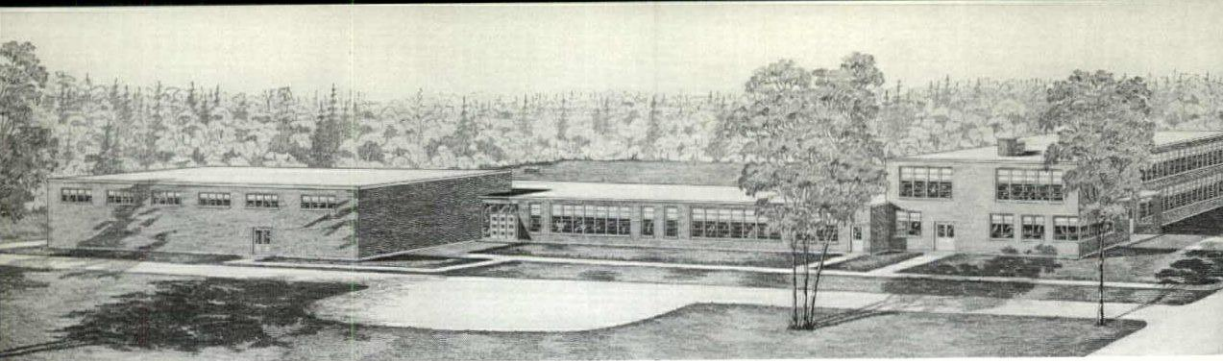
**U. N. H. Dormitory**

Plus Glazed Structural Tile and Masonry Supplies  
For Many Other Schools

**CORRIVEAU-ROUTHIER CEMENT BLOCK CO.**

**266 Clay Street - Manchester, N. H.**

NAtional 2-3506



## Additions and Alterations to High School, Merrimack

### DESCRIPTION:

Reinforced Concrete Foundations, Reinforced Dampproofed Concrete Floor Slabs, Structural Steel Frame, Precast Concrete Insulating Roof Decking, Twenty Year Bonded Roof. Lead Coated Copper Flashings, Aluminum Sash, Brick Facing with Cinder Tile Backing, Cinder Tile

Interior Partitions, Acoustical Tile Ceilings in Classroom Areas, Large Glazed Areas in Corridor, Wood Stage Floor, Asphalt Tile Finished Floors in Classrooms, Steel Interior Door Frames, Sixteen (16) Fixture Plumbing System, Extension of Existing Hot Water Heating System, Forced Ventilation.

ITEM	Cost	% of Total Cost	Cost Per Sq. Ft.	Cost Per Cu. Ft.
STRUCTURE.....	\$91,961.00	81.	\$6.69	\$ .349
PLUMB., HEAT., VENT.....	14,900.00	13.1	1.08	.057
ELECTRICAL.....	6,616.00	5.9	.48	.025
<b>TOTAL COST OF BUILDING.....</b>	<b>\$113,477.00</b>	<b>100.0</b>	<b>\$8.25</b>	<b>\$ .431</b>

TOTAL VOLUME: 263,187 cu. ft.—TOTAL FLOOR AREA: 13,750 sq. ft.

CEILING HEIGHTS: Classroom 11'-0"; Activities Room 18'.

**Irving W. Hersey Associates, A.I.A., Architects - Durham, N. H.**

**SEPPALA AND AHO CONSTRUCTION CO., NEW IPSWICH, N. H.**

**GENERAL CONTRACTOR**



**ARCHITECTURAL STONE  
COMPANY**

INCORPORATED



MANUFACTURERS OF

**CAST STONE**

TURNERS FALLS

MASSACHUSETTS

**Celotex Acoustical  
Products**

**Office Partitions**

**Insulrock Roof Deck**

by

**Pitcher & Company, Inc.**

67 Rogers St., Cambridge, Mass.

Goffstown, N. H. HYacinth 7-2376

**SEPPALA and AHO  
CONSTRUCTION COMPANY**

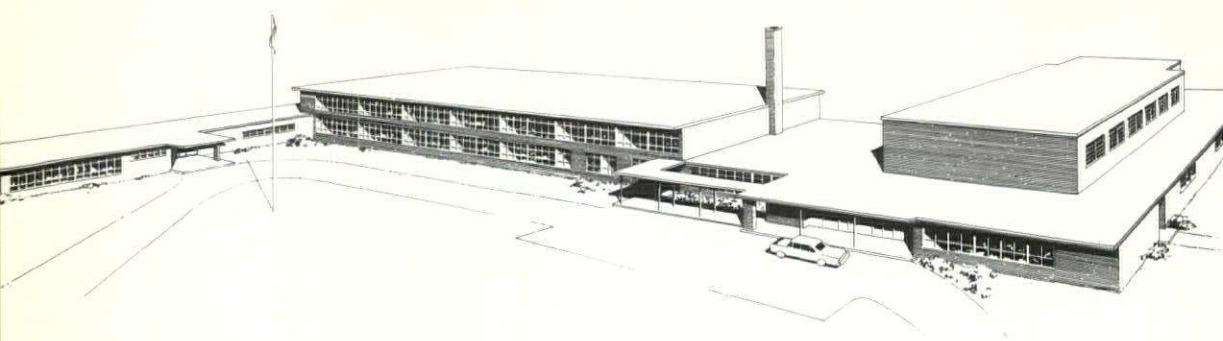
NEW IPSWICH, NEW HAMPSHIRE

Tel. New Ipswich, N. H. 89

Ashby, Mass. Dupont 6-5380

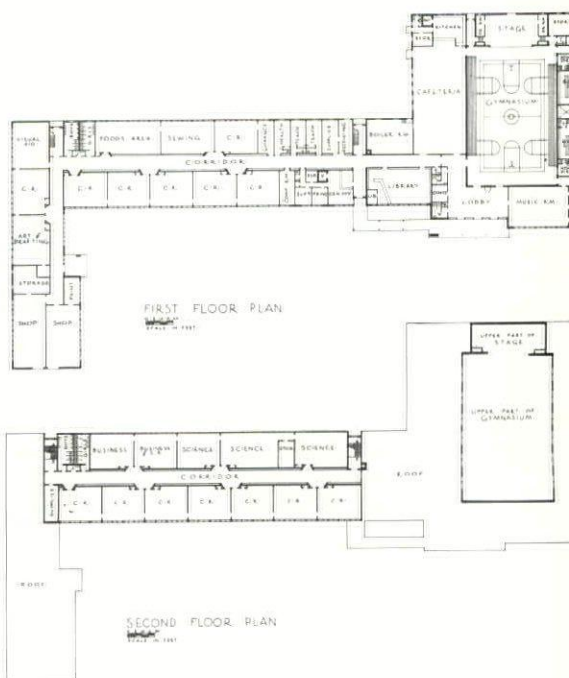
---

**GENERAL CONTRACTORS  
MERRIMACK HIGH SCHOOL ADDITION  
Merrimack, N. H.**



## Proposed Consolidated High School for the New Hampshire Towns of Madison, Effingham, Brookfield, Freedom, Tamworth, Wakefield and Ossipee

**CONSTRUCTION MATERIALS:** Outside Walls: Face brick backed up with concrete block. Concrete block to be painted on all interiors—Floor Construction: First Floor—Integral waterproof concrete slab on earth covered with asphalt, plastic and ceramic tile where specified. (Portion over shop end, reinforced concrete). Second Floor—Steel beams, lintels, and open truss joists, steeltex and 3" concrete slab covered—Roof Construction: School Portion—Douglas Fir roof rafters, with boarding. Cafeteria and Gym—Long-span and planking. Insulation and 20 year bonded tar and gravel roof—Windows: Structural wood units in School Portion. Steel units in Gymnasium and Locker Rooms—Interior Partitions: Concrete block painted—Corridor Walls: Glazed tile dado, with recessed lockers, plaster above—Door Bucks and Trim: 16 Gauge metal—Doors: Outside, white pine painted. Inside, birch veneer slab doors painted—Ceilings: Acoustical 1'x1' random perforated units, excepting Kitchen and Closet portion which will be sheetrock. Ceiling of Boiler Room to be of asbestos board insulated with fibre glass—Heating: Vapor steam, Vulcan radiation zone and temperature controlled—Ventilation: Classrooms, Gym, Cafeteria, Kitchen, etc., to be ventilated by electric operated fans, galvanized iron ducts—Plumbing: Standard school sizes meeting all plumbing codes and requirements—Electric: Fixtures—incandescent and fluorescent—Wiring: Romex.



### ESTIMATED CONSTRUCTION COST:

Building Construction Cost .....	\$735,000.00
Septic Tank and Leach Field .....	5,000.00
Water — Well and Storage .....	6,000.00
Finish Grading, Sidewalks and Drives .....	10,000.00
Architects and Engineers Fee (6%) .....	45,000.00
Blueprints — Legal — Travel .....	1,000.00
Contingency .....	12,000.00
	<hr/>
	\$814,000.00

TOTAL VOLUME: 995,000 cu. ft.—FLOOR AREA: 61,062 sq. ft.

**Alfred T. Granger Associates, A.I.A., Architects and Engineers**  
Hanover, N. H.



# 10 Schools In This Issue

## HAVE

- \* TECTUM ROOF DECK
- \$ MODERNFOLD DOORS
- ‡ WHITE MOVEABLE PARTITIONS

- \* Berlin High, Gorham High, Hampton Cooperative, Keene Teachers, Pease Air Force Base Elementary, Plymouth Vocational Building, Raymond Elementary, Weston Elementary.
- \$ Lebanon High Addition, Plymouth Teachers College Dormitory.
- ‡ Keene Teachers College Vocational Building.

### THE BADER COMPANY, INC. ACOUSTICAL and PARTITION CONTRACTORS

699 Pine St.  
Burlington, Vt.  
130 Crescent St.  
Rutland, Vt.

Route No. 8  
Beck Road  
Concord, N. H.  
431 Turner St.  
Auburn, Maine

## CALIFORNIA



- PLEXICOLOR — Acrylic Exterior
- ALLWALL — Vinyl Interior
- RAYLITE — Rubber for Interior Masonry
- RAYOGLOS — Latex Semi-Gloss

Standards for Comparison and Perfection

Manufactured by

California Paint Division

California Stucco Products of N. E., Inc.

169 Waverly Street, Cambridge 39, Mass.  
KI 7-5300

STANLEY ELECTRIC TOOLS

**RUSSWIN**  
DOORWARE

**RIXSON**

**KV**

**DH**

**DENISON**  
INC.

**DALMO**  
Contractors Inc.

141 Maple St.

Box 286

BURLINGTON, VT.

Serving the Twin State Area

**AJAX**

**STANLEY**

**HALL-MACK**

**Leigh**  
BUILDING  
PRODUCTS

**EPCO**

**TV 7**  
WASHINGTON  
D.C.

**JOHN J. REILLY**

ELECTRICAL  
CONTRACTOR

Residential and Industrial Wiring

DIAL MAN. 3-3568

875 South Willow St., Manchester, N. H.

Motor Repairing





## Men's Dormitory, Plymouth Teachers College, Plymouth

### DESCRIPTION:

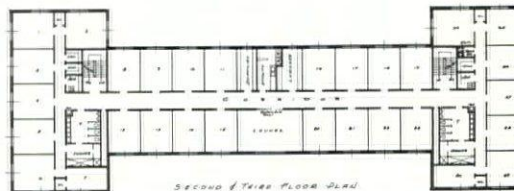
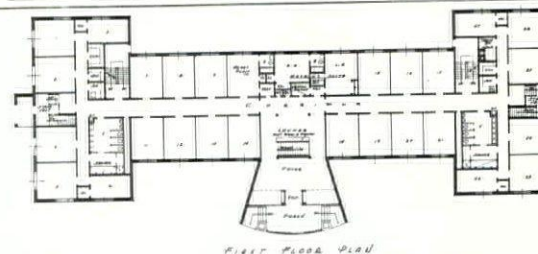
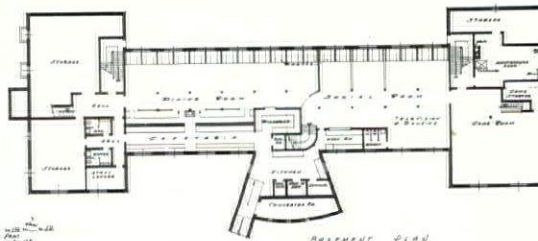
Statistical Data: 161 students accommodated—41,850 square feet—\$544,330 total cost including tunnel to Mary Lyons Hall, exterior work and built-in furniture—\$13.00 per square foot.

**PLAN:** Basement—provides cafeteria, social room with snack bar, game room, transformer room, storage rooms, incinerator room. The cafeteria is connected by an underground tunnel to the main kitchen located in adjacent Mary Lyons Hall; Main Floor—contains foyer and lounge, matron's suite, guest suite, student rooms, toilets and showers; Upper Floors—(2) provide lounge, student rooms, utility room, storage rooms, toilets and showers.

**TYPICAL STUDENT ROOM:** The typical room is a double room equipped with built-in wardrobe, dresser, desk, desk light, corkboard and mirror for each student.

### CONSTRUCTION:

Foundation—Concrete; Frame — Reinforced concrete columns, beams, and slabs; Walls—Brick with masonry block backers; Windows—Aluminum sliding windows; Partitions—Solid plaster between classrooms, masonry block elsewhere; Wall Finishes—Ceramic tile in toilets and showers, plaster dado covered with Kalistron in corridors, wood veneers in lounges, cafeteria and social rooms, painted masonry elsewhere; Ceiling Finishes—Acoustical tile in cafeteria, social room, lounges and corridors, painted concrete slab elsewhere; Roof—Rigid insulation, built-up tar and gravel roofing, copper flashings; Floorings—Ceramic tile in toilets and showers, quarry tile in cafeteria work areas, vinyl tile elsewhere; Plumbing—Wall-hung water closets, both gang and individual showers. Metal toilet stalls. Copper water piping, Roof drainage system; Heating—Pipe tunnels to central heating plant, converter, hot-water system, finned-



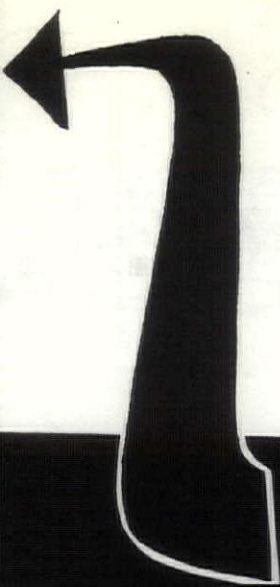
tube radiation; Ventilation—Mechanical ventilation for toilet rooms and interior rooms, fresh air units in cafeteria and social room; Electrical—Transformer vault, fluorescent lighting in cafeteria, social room, game room and lounges, incandescent lighting elsewhere;

**SPECIAL EQUIPMENT** — Incinerator, rubbish chute, rubbish hoist, stainless-steel cafeteria and dishwashing equipment, built-in booths cafeteria and social room.

**Tracy and Hildreth, A.I.A., Architects - Nashua, N. H.**

**SWANBURG CONSTRUCTION CORP., MANCHESTER, N. H.**  
GENERAL CONTRACTOR





**ANOTHER  
FINE SCHOOL BUILDING  
BY**

**SWANBURG  
CONSTRUCTION CORP.**

**Manchester, N. H.**

**General Contractor for Plymouth Teachers College  
— Mens Dormitory, — Plymouth, N. H.**

**DUNLOP & HOEY**

**John R. Dunlop**  
Cross Rd.  
Tilton, N. H.  
Tel. 512

**Raymond A. Hoey**  
105 Mechanic St.  
Laconia, N. H.  
Tel. 2807-W

**Electrical Contractors**

**Industrial — Commercial — Residential**



**ELECTRICAL CONTRACTORS**

**for**

**PLYMOUTH TEACHERS COLLEGE**

**DORMITORY**

**Plymouth, N. H.**

**T**wo more outstanding jobs to add  
to our long list of plumbing and  
heating installations

**Plumbing - Heating  
Contractors**

**at**

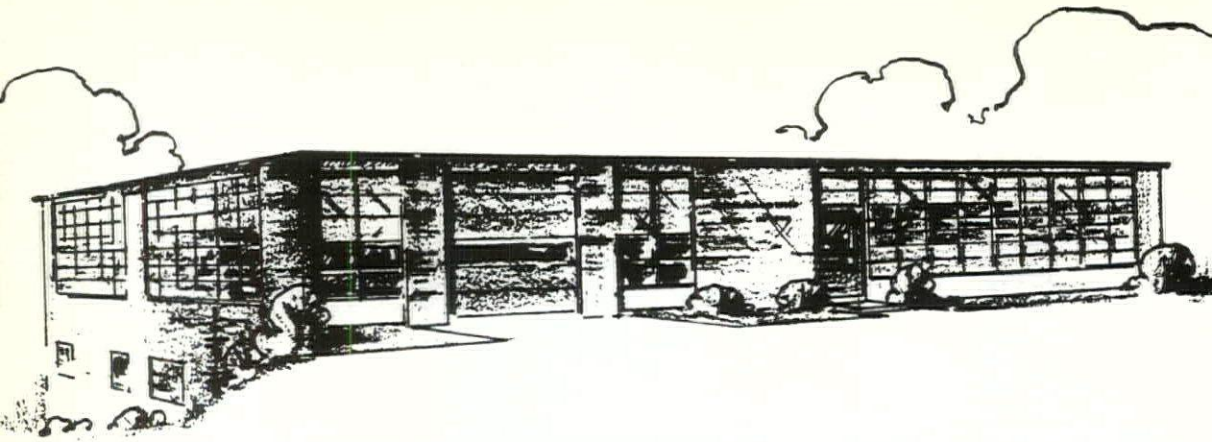
**SANBORNTON  
ELEMENTARY SCHOOL ADDITION  
PLYMOUTH TEACHERS COLLEGE  
DORMITORY**

**Francoeur-Gill Co., Inc.**

**34 Clinton St. Lakeport, N. H.**

**P. O. Box 61**

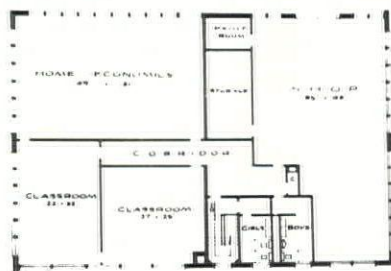
**Telephone 1090 — 2722**



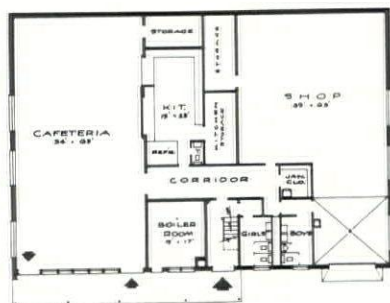
## Vocational Building, Plymouth High School, Plymouth

### CONSTRUCTION:

Foundation: Reinforced concrete — Exterior Walls: Concrete blocks painted brick faced towards street, West Elevation—Interior Walls: Concrete blocks painted — Ceilings: Acoustic painted roof deck exposed entire first floor ceiling. Acoustic ceiling tile in Cafeteria and kitchen. Corrugated metal painted remainder of ground floor—Roof: Longspan steel joists, 3" fibre structural acoustical insulating plank, 20-year tar and gravel roof—Floors: Ground floor, reinforced concrete slab on fill with asphalt flooring in Cafeteria and Kitchen, remaining floors concrete finished with floor hardener and sealer. First floor, steel joists, corrugated steel floor base, 3" reinforced concrete with asphalt tile in classrooms and Home Economics' room. Remaining floors concrete as above—Windows: Heavy intermediate steel windows in curtain walls of insulated porcelain enameled steel and single steel window units.—Doors: Flush type steel throughout — Heating and Ventilating: Steam unit ventilators in classrooms, Home Economics' room and Cafeteria. Steam unit heater in shops and radiant wall unit in toilets and corridors—Electrical Fixtures: Fluorescent in shops, kitchen, classrooms and Home Economics' room; remaining Incandescent.



PLAN AT UPPER LEVEL  
1/8" EQUALS 1'-0"



PLAN AT LOWER LEVEL  
1/8" EQUALS 1'-0"

ITEM	Cost	% of Total Cost	Cost Per Sq. Ft.	Cost Per Cu.
STRUCTURE.....	\$ 81,053.00	76.7	\$6.11	\$ .48
PLUMB., HEAT., VENT.....	16,210.09	15.3	1.23	.09
ELECTRICAL.....	8,500.00	8.0	.64	.05
TOTAL COST OF BUILDING.....	\$105,763.09	100.0	\$7.98	\$ .62

TOTAL VOLUME: 168,386 cu. ft.—FLOOR AREA: 13,251 sq. ft.—  
FLOOR HEIGHTS: Basement to First 13'-4"; First to Top of Steel 11'-6".  
DATE OF BIDS: October 15, 1958.

**Douglass G. Prescott, A.I.A., Architect - Laconia, N. H.**

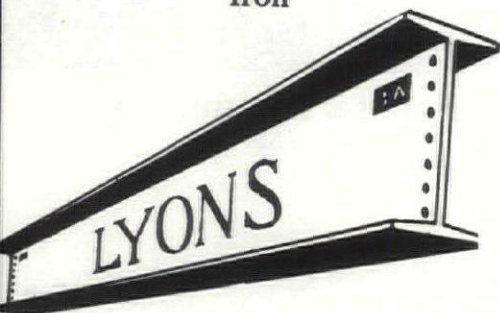
**WINSTON P. TITUS, LAKEPORT, N. H.**

GENERAL CONTRACTOR



**Steel Structures Designed  
and Fabricated**

**Architectural and Ornamental  
Iron**



*"Steel when you want it"*

**LYONS IRON WORKS, INC.**

62 MAPLE ST. MANCHESTER, N. H.

DIAL 3-6975

## **Jordan's Electrical Co.**

PHONE 716

35 BAY STREET

TILTON, N. H.

**COMMERCIAL & RESIDENTIAL**

**WIRING**

## **Electrical Contractor**

for

Holderness Elementary Addition  
Holderness, N. H.

Plymouth High Vocational Building  
Plymouth, N. H.

Salisbury Elementary School  
Salisbury, N. H.



**GRADE-AID®**

**MODULAR  
MOBILE  
STEEL  
CLASSROOM  
EQUIPMENT**

Sinks, wall cabinets, storage units, wardrobes — toy carts, clay carts, book carts! Available in specific heights to fit all grades.

Mobile units for any desired arrangement. Mobile or stationary science tables. Colorful sliding doors—interchangeable to match any color scheme.

Write for 1959 Grade-Aid Handbook.

**School Equipment Manufacturing Corp.**  
46 Bridge Street, Nashua, New Hampshire

*Subsidiary of The Maine Manufacturing Company*

*"Serving New Hampshire schools and industry since 1874"*

## **Fabricated Steel Products Co., Inc.**

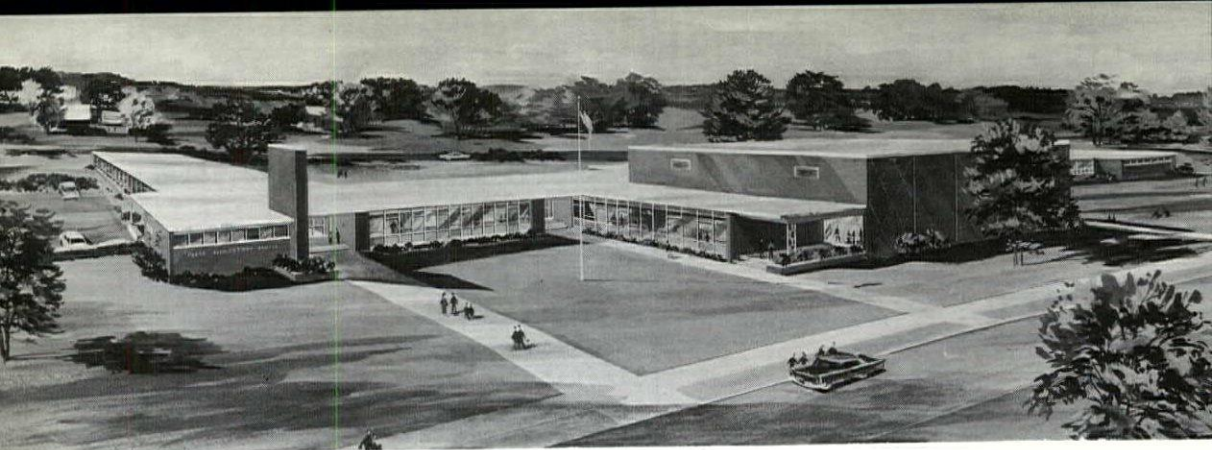
Agents for

**Ceco Steel Products Corporation**

**STEEL JOISTS - ROOF DECK  
STEEL SASH - ALUMINUM SASH  
REINFORCING MESH  
DUR-O-WAL**

**Warehouse and Office  
115 Old Colony Avenue  
Wollaston 70, Mass.  
Mayflower 9-5218**

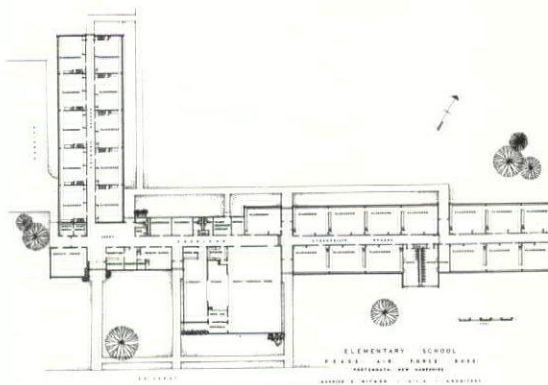




## Elementary School, Pease Air Force Base, Portsmouth

### DESCRIPTION:

Footings and foundations—concrete; exterior walls—brick veneer on cinder block back up; roof construction—steel bar joists, longspans, and structural steel; insulated cement fiberboard decking; roofing—tar and gravel, 20-year bond; flashings—copper; exterior panel wall construction—aluminum with porcelain steel inserts; exterior sash and door frames—aluminum; interior door frames—steel; interior doors—solid veneer plywood; interior partitions—cinder block, wood, and glass; floor slab—reinforced concrete on drainage fill; finished floors—asphalt tile throughout except toilet rooms where there will be mosaic tile; ceilings—acoustical plaster with electrical luminous ceilings in main lobby; dadoes in toilet rooms—ceramic tile; wainscoting in library and all-purpose room—plywood; all-purpose gymnasium floor—wood over screeds and reinforced concrete slab; porcelainized metal toilet stalls and partitions; all interior casework—birch wood with translucent glass panels between corridors and classrooms; light lunch, snack bar, and kitchen facilities between stage, library, and all-purpose room—stainless steel; heating—forced hot water, cast fired boilers; ventilation—mechanical; electrical—fluorescent, incandescent, and luminous ceilings; automatic electric fire alarm and clock system installed, speaker system with audio-visual provided to all rooms.



This school provides one entire wing for kindergarten first and second grades, and one wing for fourth, fifth, and sixth grade pupils. Administrative facilities include teachers' rooms and toilets, health room and clinic with nurses' facilities, principal and secretarial offices, janitors' quarters, and supply and storage rooms. Recreational area includes physical education director's quarters, gymnasium, stage, with kitchen facilities for light lunch and snack bar. A library and study hall are provided for the entire school use.

ITEM	Cost	% of Total Cost	Cost Per Sq. Ft.	Cost Per Cu. Ft.
STRUCTURAL.....	\$507,875.00	74.0	\$10.32	\$ .78
PAINTING.....	13,000.00	2.6	.34	.02
ELECTRICAL.....	29,300.00	4.6	.76	.04
HEATING & VENTILATING.....	66,625.00	8.0	1.72	.10
PLUMBING.....	43,000.00	7.0	1.10	.07
SPEAKER SYSTEM.....	2,500.00	.6	.065	.004
FIRE ALARM SYSTEM.....	900.00	.3	.023	.001
CLOCK SYSTEM.....	4,600.00	.9	.121	.007
ELECTRIC LIGHTING FIXTURES.....	11,200.00	2.0	.291	.017
<b>TOTAL COST OF BUILDING.....</b>	<b>\$689,000.00</b>	<b>100.0</b>	<b>\$14.74</b>	<b>\$1.04</b>

TOTAL VOLUME: 641,760 cu. ft.—FLOOR AREA: 38,170 sq. ft.—  
DATE OF BIDS: July 22, 1958.

ADDITIONAL ESTIMATED COST: Movable Equipment—\$42,000. Site  
Improvements and Utility Connections—\$41,000.

**Maurice E. Witmer, A.I.A., Architect - Portsmouth, N. H.**

**A. PASQUALE & SONS, HAVERHILL, MASS.**

GENERAL CONTRACTOR



## **M. B. Foster Electric Co.**

Telephone GENEVA 6-5606 - 07

69 Albany Street

PORTSMOUTH, N. H.



**Electrical Contractor**

for

**Elementary School**

**Pease Air Force Base**

PORTSMOUTH, N. H.

— At —

**Pease Air Force Base  
Elementary School**

**Plumbing  
Heating  
Ventilating**

BY



Dial NA 3-0813

Heating • Air Conditioning • Plumbing  
CONTRACTORS

## **A. PASQUALE & SONS**

**81 - 83 Merrimack Street**

**HAVERHILL, MASSACHUSETTS**

**DRake 2-0237**

---

**GENERAL CONTRACTORS**

for

**Pease Air Force Base Elementary School**

**Portsmouth, N. H.**

**PATERSON & GETCHELL**  
**Painting Contractors**

---

Industrial Brush and Spray Painting

---

Full Line of Sherwin-Williams Paints

---

Painting Contractors  
for

PEASE AIR FORCE BASE  
ELEMENTARY SCHOOL  
Portsmouth, N. H.

21 Daniel St. Tel. GE 6-3031  
PORTSMOUTH, N. H.

**CAMBRIDGE CEMENT**  
**STONE COMPANY**

INCORPORATED

**CAST STONE**

for  
PEASE AIR FORCE BASE  
ELEMENTARY SCHOOL  
and  
DANIEL J. BAKIE  
SCHOOL ADDITION  
Kingston, N. H.

156 Lincoln St. Allston 34, Mass.  
Tel. STadium 2-7610 - 2-7611

**MANCHESTER ROOFING CO., INC**

117 Second Street

WALTER J. WARNER  
NA 2-6639

Manchester, N. H.

**ROOFING CONTRACTOR**

for

**Brown Elementary School, Berlin, N. H.**

**Groveton, N. H. Schools**

**Pease Air Base Elementary School**





## Alterations to Woodsville High School, Woodsville

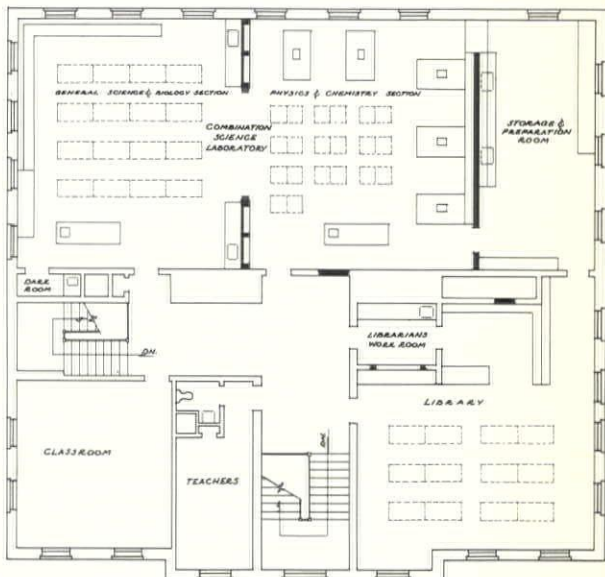
### DESCRIPTION:

The purpose of this alteration job was to convert an unused assembly hall and stage area into a complete Science Laboratory Suite, and an inadequate laboratory room into a Library which the high school seriously needed. This purpose was satisfactorily accomplished as shown by the plans for the following costs:

General Contract: .....	\$13,746.00
Heating, Ventilating and Plumbing: .....	1,942.00
Electric: .....	1,229.65
<b>Total Cost: .....</b>	<b>\$16,917.65</b>

The outstanding feature of this work was the construction, at a considerable saving over conventional laboratory furniture, of new student, and teacher demonstration, laboratory tables and laboratory work counters. Standard laboratory furniture accessories, sinks, etc. were incorporated in normal millwork construction and all tables and counters were satisfactorily capped with a 1/4" thick monolithic asbestos-cement top treated with a plastic base wax to give maximum resistance to stains and acids. Exhaustive tests on table and counter tops were made prior to construction.

All counters for the General Science and Biology Section were made by remodeling and resurfacing the old obsolete laboratory tables. The original crowded laboratory room has been replaced by two rooms of approximately equal size which offers a separation of science activities when class scheduling so requires, and also an opportunity for other classroom activity such as



SECOND FLOOR PLAN  
AFTER ALTERATIONS

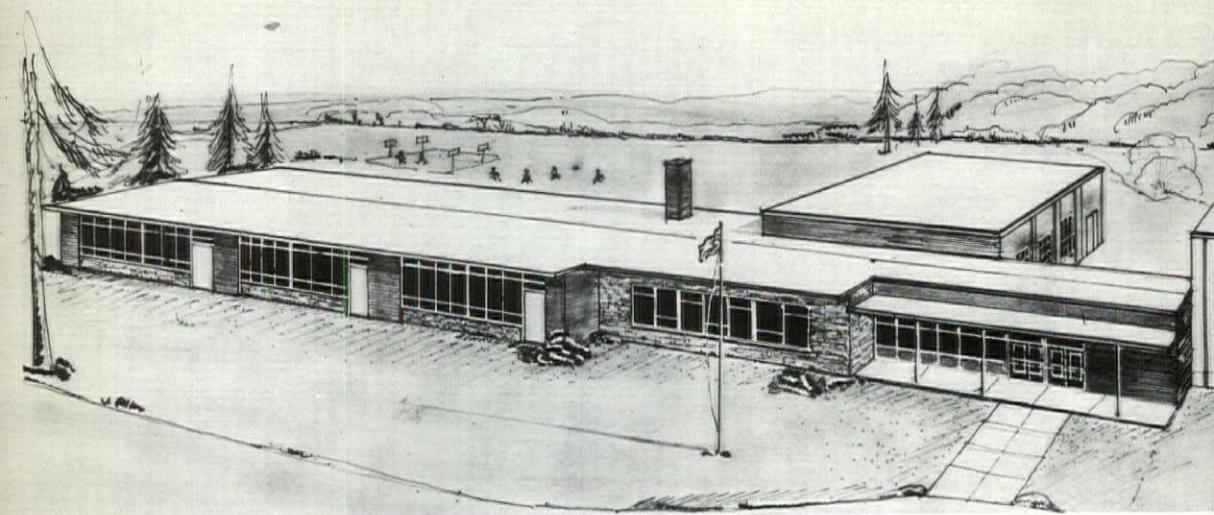
mathematics, when only one area is needed for science classes. The storage and preparation room will also serve as an individual research room for advanced classes.

All altered areas were completely redecorated and all old wood floors received asphalt tile.

**Gray and Ingram, A.I.A., Architects - Hanover, N. H.**

**H. P. CUMMINGS CONSTRUCTION CO., WOODSVILLE, N. H.**

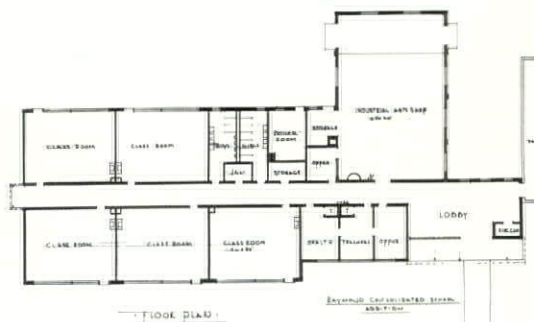
GENERAL CONTRACTOR



## Raymond Consolidated School Addition, Raymond

### DESCRIPTION:

Footings and Foundations—Reinforced concrete; Industrial Arts Shop—Steel frame; Roof framing—Jr. beams, precast roof deck; Exterior Walls—Brick veneer, Norlite back-up units; Class Room Wing—Brick veneer and Bestone Norlite back-up units; Roof Framing—Jr. Beams, precast; Roof Deck—20-year bonded roofing; Interior—Partitions Norlite units; Floors—Concrete slab finish asphalt tile; Industrial Arts Shop—Wood; Ceilings—Acoustical plaster; Windows—Aluminum sash; Heating—Forced hot water, 3 zone; Plumbing—Standard school size fixtures, sink and fountain in classrooms; Electrical—Fluorescent fixtures and incandescent.



ITEM	Cost	% of Total Cost	Cost Per Sq. Ft.	Cost Per Cu.
STRUCTURE.....	\$82,097.00	76.	\$7.04	\$ .54
PLUMB., HEAT., VENT.....	18,045.00	17.	1.55	.12
ELECTRICAL.....	7,896.00	7.	.68	.08
<b>TOTAL COST OF BUILDING.....</b>	<b>\$108,038.00</b>	<b>100.</b>	<b>\$9.27</b>	<b>\$ .74</b>

TOTAL VOLUME: 150,324 cu. ft.—FLOOR AREA: 11,650 sq. ft.—  
DATE OF BID: September 25, 1958.

**Alexander J. Majeski, A.I.A., Architect - Bedford, N. H.**

**GAMACHE CONSTRUCTION CO., INC., MANCHESTER, N. H.**  
GENERAL CONTRACTOR



## **ERIC ANDERSON**

82 Reservoir Ave. Dial NA 5-5640

MANCHESTER, N. H.

---

### **Painting Contractor**

for

RAYMOND ELEMENTARY

and

SANBORNTON ELEMENTARY

SCHOOLS

## **McCarthy Engineering**

C O R P O R A T I O N

### **Plumbing and Heating**

Industrial and Residential Installation

**Raymond, N. H.**

TWinoaks 5-3352

•

### **Plumbing - Heating**

### **Ventilating**

at

RAYMOND ELEMENTARY SCHOOL

Raymond, N. H.

# **GAMACHE CONSTRUCTION COMPANY**

INCORPORATED

346 CENTRAL STREET

MANCHESTER, N. H.

NA 3-0262

### **General Contractor**

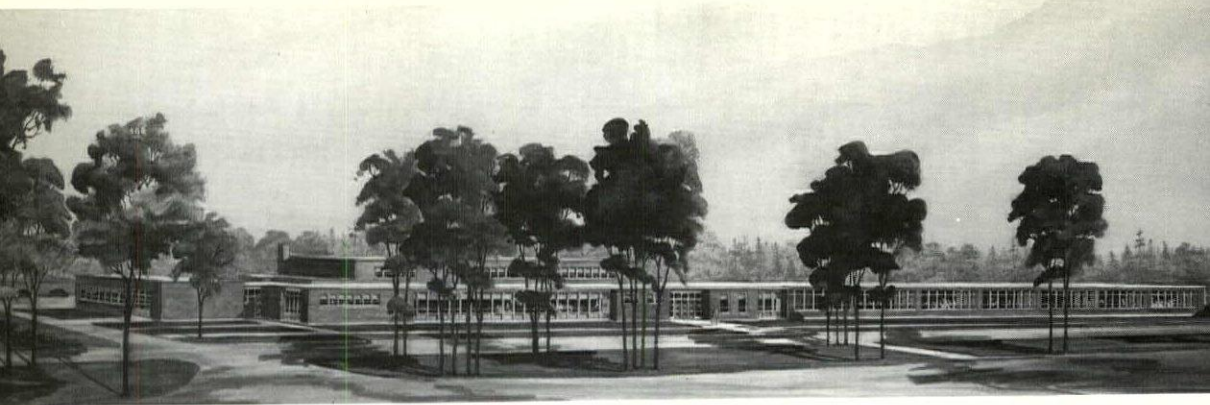
FOR

**WESTON SCHOOL**

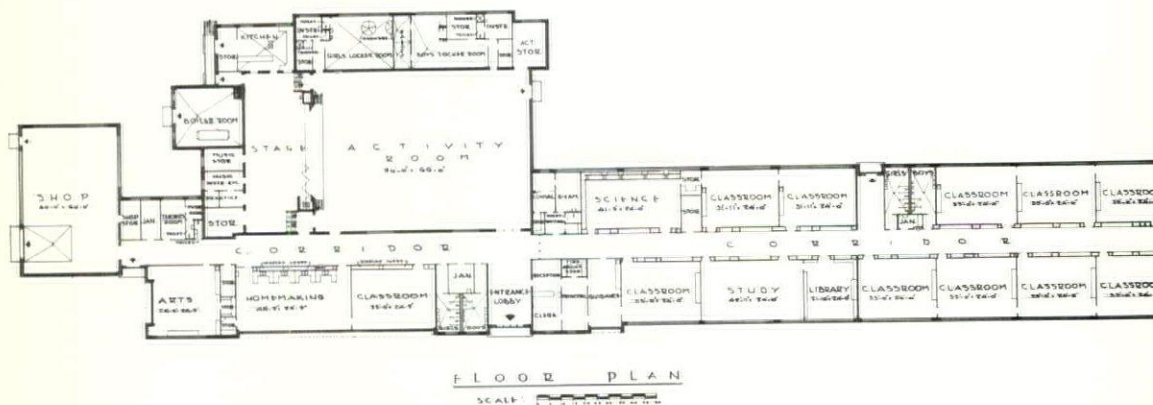
**Manchester, N. H.**

**RAYMOND ELEMENTARY SCHOOL**

**Raymond, N. H.**



## Junior High School, Sanford, Maine



### DESCRIPTION:

Reinforced Concrete Foundations, Reinforced Dampproofed Concrete Floor Slabs, Structural Steel Frame, Precast Concrete Insulating Roof Decking, Twenty-Year Bonded Roof. Lead Coated Copper Flashings, Aluminum Sash and Curtain Walls; Brick facing with Cinder Tile Backing, Cinder Tile Interior Partitions, acoustical

Tile, Plastered and Structural Ceilings, L. Display Cases, Ceramic Tile Corridor & T. Dadoes, Ceramic Tile Floors, Asphalt Finished Floors, Wood Stage Floor, Stair Steel Kitchen Equipment, Steel Interior Frames, Program Plumbing System, Eighty-(89) Fixtures. Six Zone Hot Water Heat System in Junior High; Forced Ventilation.

ITEM	Cost	% of Total Cost	Cost Per Sq. Ft.	Cost Per C
STRUCTURE.....	\$333,061.00	76.8	\$ 8.46	\$ .5
PLUMBING.....	29,450.00	6.7	.75	.0
HEATING & VENTILATING.....	44,620.00	10.3	1.13	.0
ELECTRICAL.....	26,830.00	6.2	.68	.0
TOTAL COST OF BUILDING.....	\$433,961.00	100.0	\$11.02	\$ .7

TOTAL VOLUME: 603,527 cu. ft.—TOTAL FLOOR AREA: 39,346 sq. ft.  
—CEILING HEIGHTS: Classrooms 10'-0"; Activities 18'-0"; Shop 12'-0".

**Irving W. Hersey Associates, A.I.A., Architects - Durham, N. H.**

**CAMILLO PROFENNO CO., PORTLAND, MAINE**

GENERAL CONTRACTOR



In the Town that Refused to Die . . .

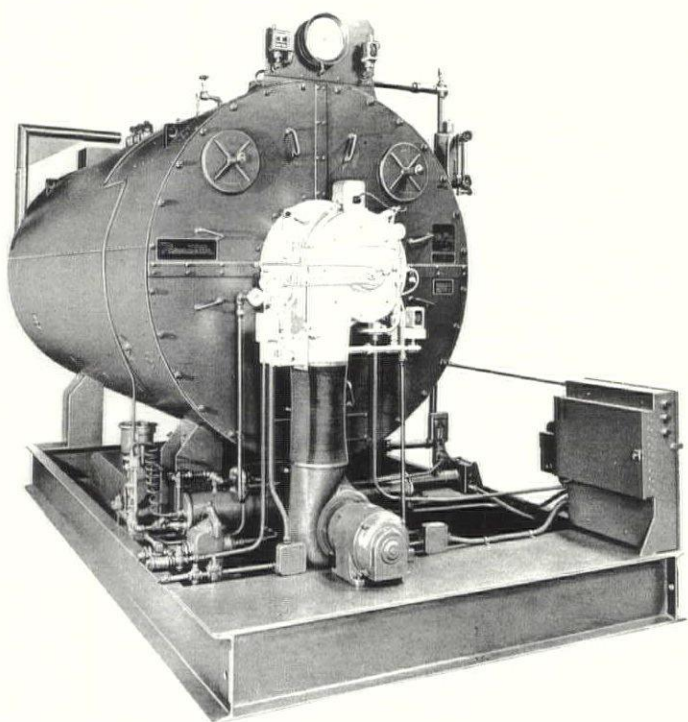
**SANFORD, MAINE**

**Is A New JUNIOR HIGH SCHOOL**

And from Committee Planning, to Design, Construction  
and Completion, all Interested Parties Wanted THE BEST  
at Reasonable Cost in that All Important Item HEATING

**THE RESULT:**

  
*Powermaster*



**THROUGH**

**CRAIG SUPPLY CO., INC.**

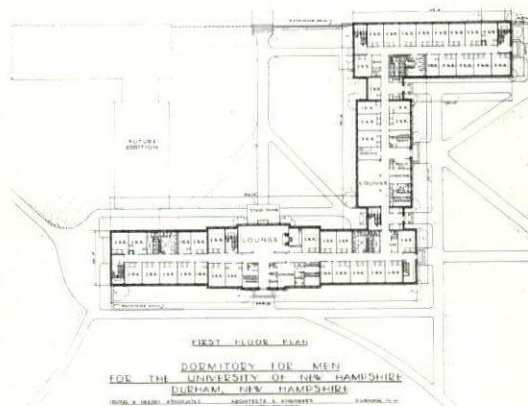
**99 MADBURY ROAD - DURHAM, N. H.**



## Men's Dormitory, University of New Hampshire

### DESCRIPTION:

Reinforced Concrete Structure and Floor Slabs, Water Struck Face Brick with Plastered Clay Tile Backing, Sprayed-Plastered Ceilings. Toilet areas have structural glazed Tile Partitions with Ceramic Tile Floors. Stairwells have Structural Glazed Tile Facing and Terrazzo Floors. Asphalt Tile Floors except as noted. Interior Partitions are Steel Studs (plastered) and Cinder Tile. The Lounges and adjoining Corridors have a Wood Dado. Steel Interior Door Frames, Aluminum Sash with Wood Frames and Trim, Wood Cornice, Colonial Entrances, Steel Wardrobes, Asbestos-Plastic Shingles, Wood Roof Boarding. Intercom and Fire Alarm Systems, extension of present Campus-Heating System (steam), Plumbing System 231 Fixtures.



ITEM	Cost	% of Total Cost	Cost Per Sq. Ft.	Cost Per C
STRUCTURE.....	\$753,716.26	84.8	\$10.15	\$1.0
PLUMB., HEAT., VENT.....	90,918.00	10.2	1.23	.1
ELECTRICAL.....	43,835.00	5.0	.59	.0
TOTAL COST OF BUILDING.....	\$888,469.26	100.0	\$11.97	\$1.2

TOTAL VOLUME: 697,981 cu. ft.—TOTAL FLOOR AREA: 74,271 sq. ft.  
—CEILING HEIGHTS: 8'-0" and 9'-2".

**Irving W. Hersey Associates, A.I.A., Architects - Durham, N. H.**

BLANCHARD STEBBINS, INC., MANCHESTER, N. H.

GENERAL CONTRACTOR



## FREDERICK A. CONNOR, INC.

Lowell, Mass.  
140 Powell Street  
GLeview 4-6591

Winchester, Mass.  
12 Sheffield West  
WI 6-2289



## Lathing and Plastering Contractor

at

UNIVERSITY of NEW HAMPSHIRE  
DORMITORY  
Durham, N. H.

## CONNIE'S CEMENT FLOOR CO.

J. "Connie" Griffith

Suncook, N. H.

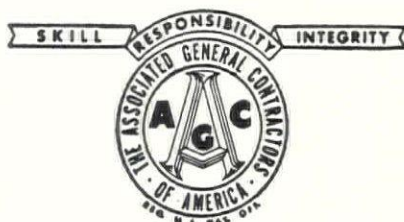
Dial HU 5-9444

Monolithic • Granolithic • Metallic

NEW DORMITORY for MEN  
UNIVERSITY of NEW HAMPSHIRE  
Durham, N. H.

Serving the Architects,  
Contractors, and Engineers of  
New England

# BLANCHARD STEBBINS, INC.



## Commercial and Industrial Work

330 Lincoln Street

Dial NA 3-2273

MANCHESTER, N. H.

*General Contractor*

**MEN'S DORMITORY**

**University of New Hampshire**

**Durham, N. H.**

**NEW HAMPSHIRE ARCHITECT**

P. O. Box 291, Concord, N. H.

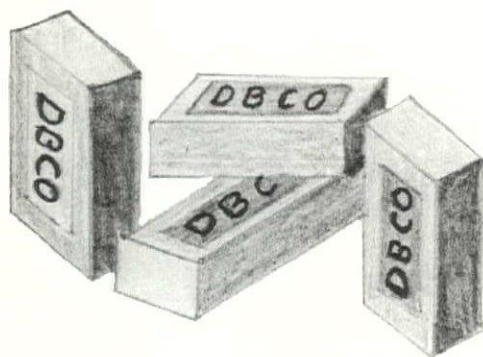
Sec. 34.66 P. L. & R.  
U. S. POSTAGE  
PAID  
Concord, N. H.  
PERMIT NO. 297

Library-American Inst. of Architects  
1735 New York Ave. N.W.  
Washington 6, D.C.

Form 3547 Requested

## *Build with Brick and Tile*

**Face Brick - Facing Tile - Flue Lining  
Metal Specialties - Sewer Pipe**



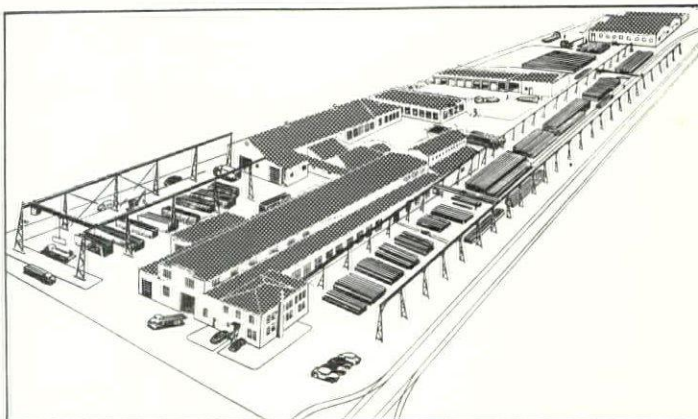
## **DENSMORE BRICK COMPANY**

**Manufacturers and Distributors**

**Lebanon, New Hampshire**

### **Serving Northern New England and New York with Steel Products**

Our large steel fabrication plant can provide you with structural steel, longspan trusses, ornamental iron and fabricated platework. Our warehouse is kept stocked with large inventories of steel and steel products in all sizes. Prompt delivery is our goal on all orders, large or small.



Aerial view of Vermont Structural Steel Co

**LET US QUOTE ON YOUR REQUIREMENTS**

**VERMONT STRUCTURAL STEEL CORP.**  
Plant and Warehouse Dial **UNIVERSITY 4-9844** Burlington **207 FLYNN AVENUE BURLINGTON, VT.**